# CFD-19/340/350

# SERVICE MANUAL

*US Model*
*CFD-19*

*Canadian Model*
*AEP Model*
*UK Model*
*CFD-340/350*

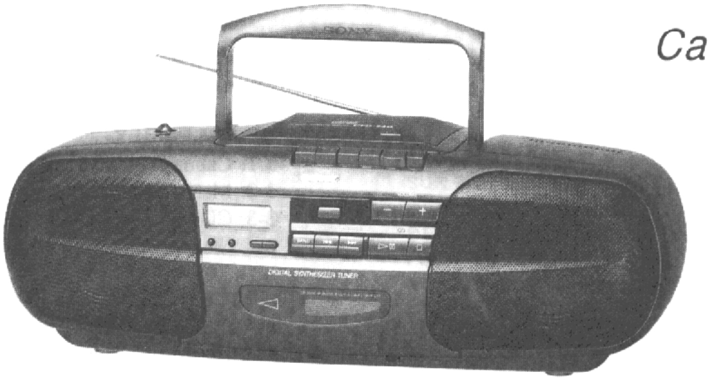


**Photo : CFD-340**

| | | |
|---|---|---|
| Model Name Using Similar Mechanism | CD Section | CFD-9 |
| | Tape Section | |
| Optical Pick-up Type | | KSM-213BAN/S-N |
| Tape Transport Mechanism Type | | MF-340 |

## SPECIFICATIONS

### CD player section

System
  Compact disc digital audio system
Laser diode properties
  Material: GaAlAs
  Wave length: 780 nm
  Emission duration: Continuous
  Laser output: Less than 44.6 μW
  (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
  200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels
  2
Frequency response
  20 - 20,000 Hz +1/-2 dB
Wow and flutter
  Below measurable limit

### Radio section

Frequency range

| Model | FM | AM |
|---|---|---|
| US, Canadian | 87.6 - 108MHz | 530 - 1,710kHz |
| AEP, UK, German | 87.6 - 107MHz | 531 - 1,602kHz |
| Italian | 87.5 - 108MHz | 531 - 1,602kHz |

IF
  FM: 10.7 MHz
  AM: 450 kHz
Aerials
  FM: Telescopic aerial
  AM: Built-in ferrite bar aerial

### Cassette-corder section

Recording system
  4-track 2 channel stereo
Fast winding time
  Approx. 115 s (sec.) with Sony cassette C-60
Frequency response
  TYPE I (normal): 70 - 10,000 Hz

### General

Speaker
  Full range: 10 cm dia., 6 ohms, cone type (2)
Outputs
  Headphones jack (stereo minijack)
  For 16 - 68 ohms impedance headphones
Maximum power output
  5 W + 5 W
Power requirements
  For CD radio cassette-corder:

  US, Canadian model : 120V AC, 60Hz
  AEP, German, Italian model
  : 220 - 230V AC, 50Hz
  UK model : 230V AC, 50Hz

  9 V DC, 6 R20 (size D) batteries

Power consumption
  AC 25 W

— Continued on page 2 —

MICROFILM

# CD RADIO CASSETTE-CORDER

SONY®

Battery life
For CD radio cassette-corder:

**FM recording**
Sony SUM-1 (NS): approx. 3.5 h
Sony alkaline AM1: approx. 10 h

**Tape playback**
Sony SUM-1 (NS): approx. 1.5 h
Sony alkaline AM1: approx. 5.5 h

**CD playback**
Sony SUM-1 (NS): approx. 1 h
Sony alkaline AM1: approx. 3.5 h

Dimensions
approx. 525 × 172 × 241 mm (w/h/d)
(20 ¾×6 ⅞×9 ½ inches) (incl. projecting parts)
Mass
approx. 4.5 kg (9 lb. 14 oz) (incl. batteries)
Supplied accessory
AC power cord (1)
Remote control (RMT-C350) (1) (for CFD-19/350)

Design and specifications are subject to change without notice.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

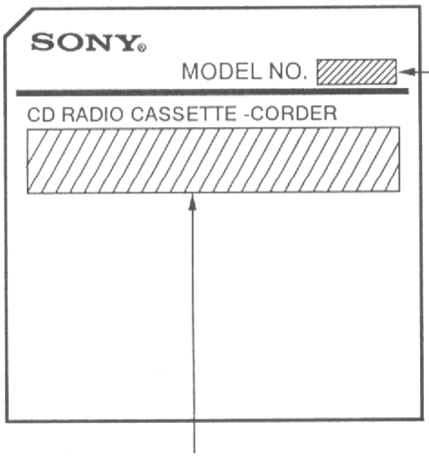
*For customers in Europe*

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS1 LASERAPPARAT

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

## MODEL IDENTIFICATION

– Model Number Label –



**CFD-19**
**CFD-340**
**CFD-350**

AC : 120V~60Hz (US, Canadian model)
AC : 220-230V~50Hz
(AEP, German, Italian model)
AC : 230V~50Hz (UK model)

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**Flexible Circuit Board Repairing**

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

**Notes on chip component replacement**

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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# SECTION 1
# SERVICING NOTES

## NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

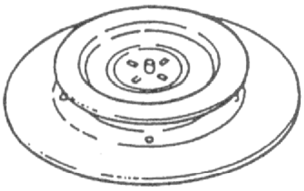
## NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25cm away form the objective lens.

## CHUCK PLATE JIG ON REPAIRING

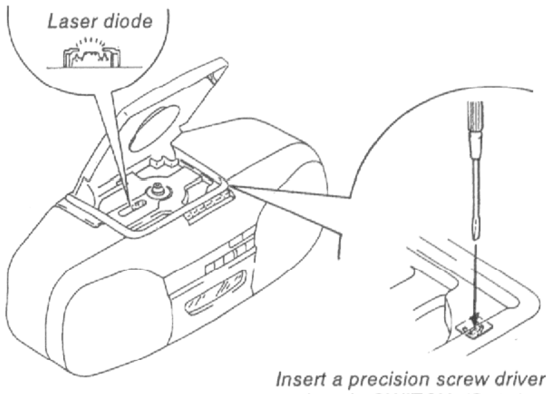
On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig : X-4918-255-1



## LASER DIODE AND FOCUS SEARCH OPERATION CHECK

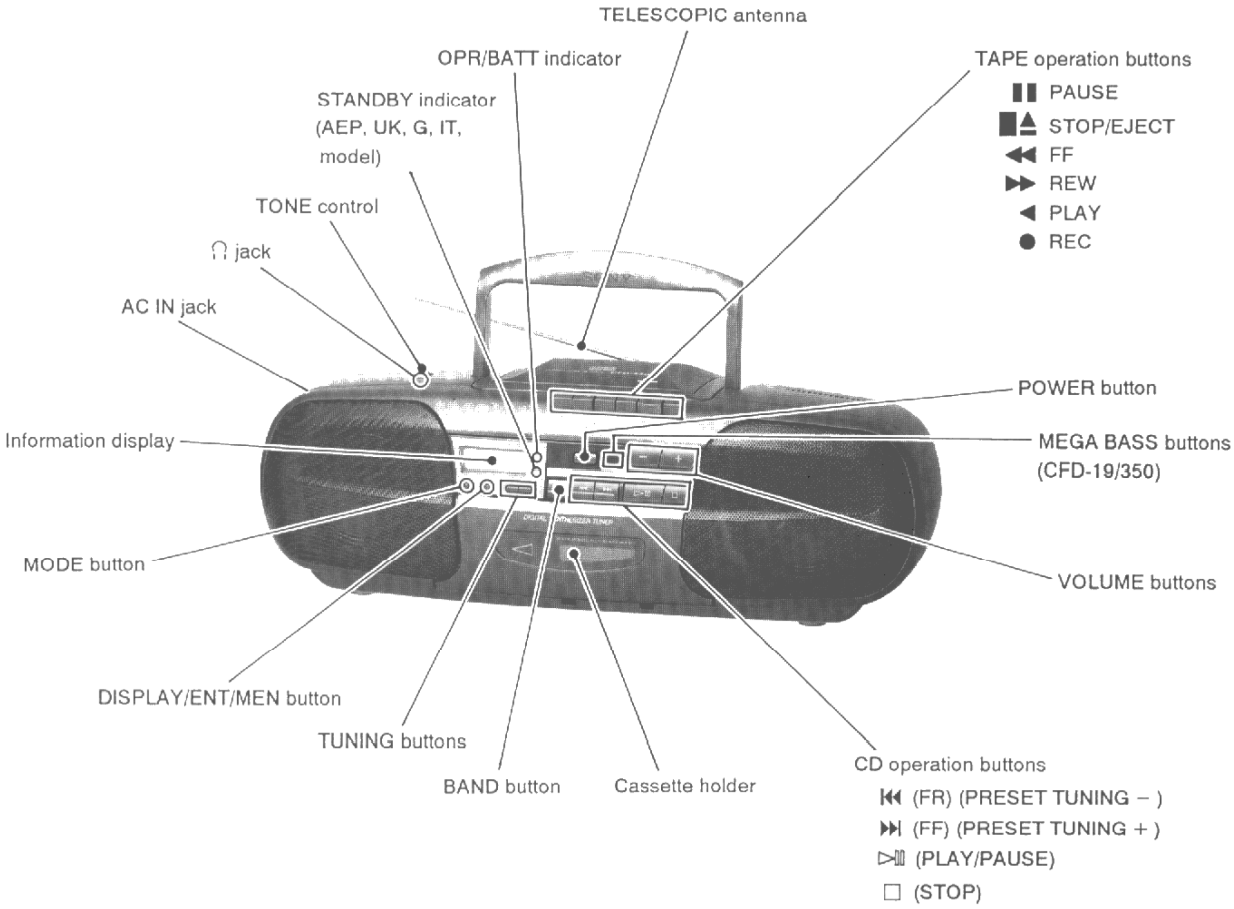
1. Press CD open knob.
2. Open the lid for CD.
3. Push on SWITCH (S402) as following figure.
4. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down once for the focus search.



*Insert a precision screw driver and push SWITCH (S402)*

# SECTION 2
# GENERAL

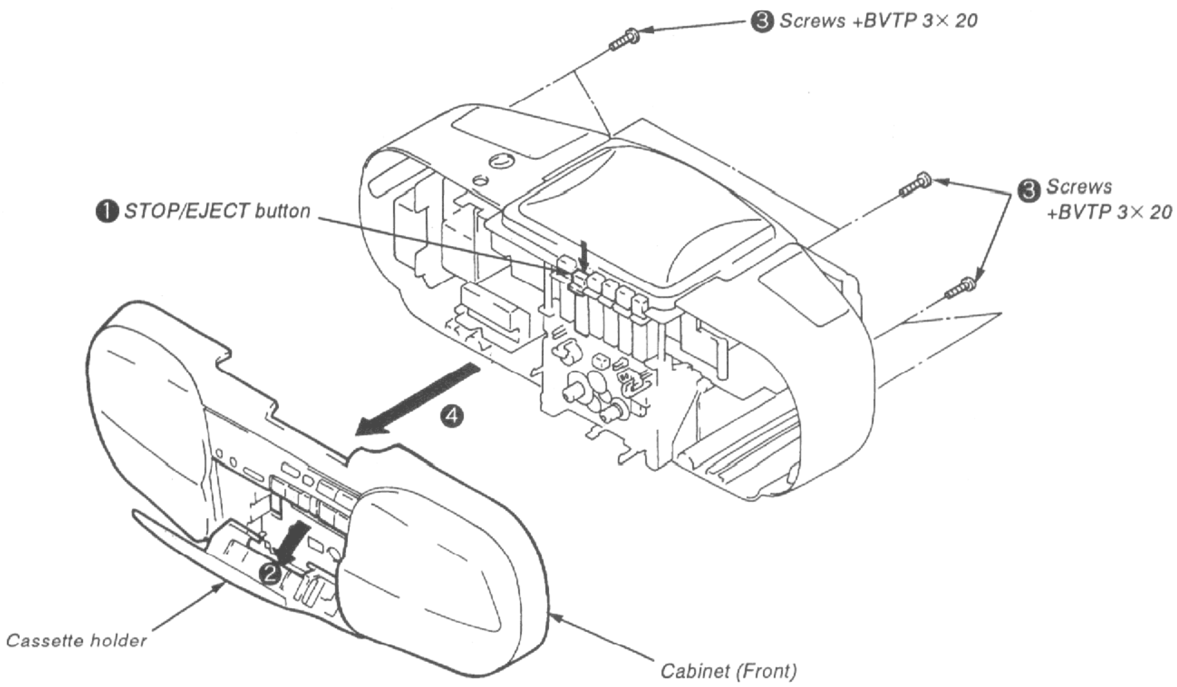
## LOCATION AND FUNCTION OF CONTROLS


TELESCOPIC antenna
OPR/BATT indicator
TAPE operation buttons
❚❚ PAUSE
■▲ STOP/EJECT
◀◀ FF
▶▶ REW
◀ PLAY
● REC
STANDBY indicator (AEP, UK, G, IT, model)
TONE control
∩ jack
AC IN jack
POWER button
Information display
MEGA BASS buttons (CFD-19/350)
MODE button
VOLUME buttons
DISPLAY/ENT/MEN button
TUNING buttons
BAND button
Cassette holder
CD operation buttons
⏮ (FR) (PRESET TUNING – )
⏭ (FF) (PRESET TUNING + )
▷II (PLAY/PAUSE)
□ (STOP)

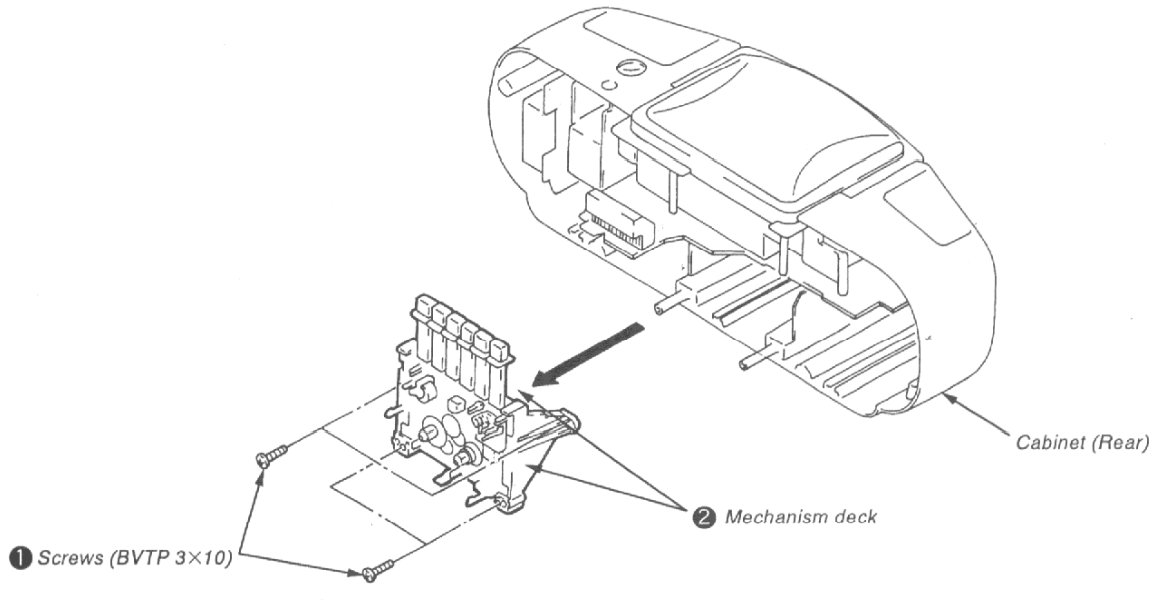
# SECTION 3
# DISASSEMBLY

**Note :** Follow the disassembly procedure in the numerical order given.

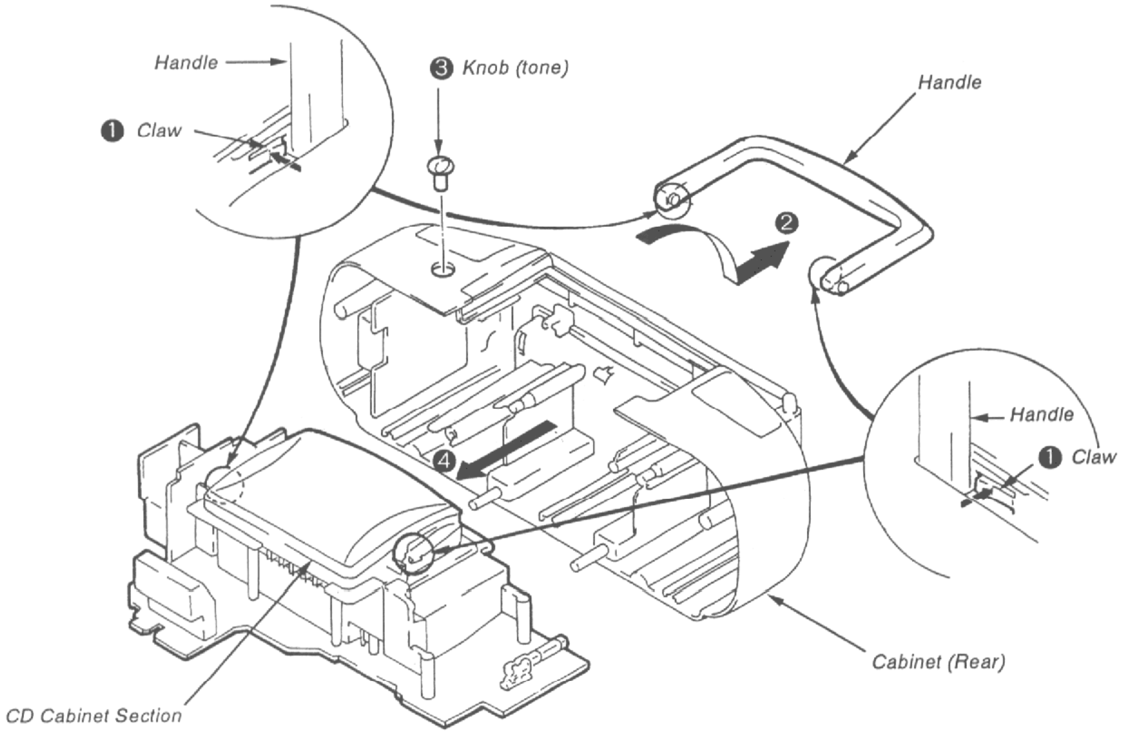
## 3-1. CABINET (FRONT) REMOVAL


❸ Screws +BVTP 3× 20
❶ STOP/EJECT button
❸ Screws +BVTP 3× 20
❹
❷
Cassette holder
Cabinet (Front)

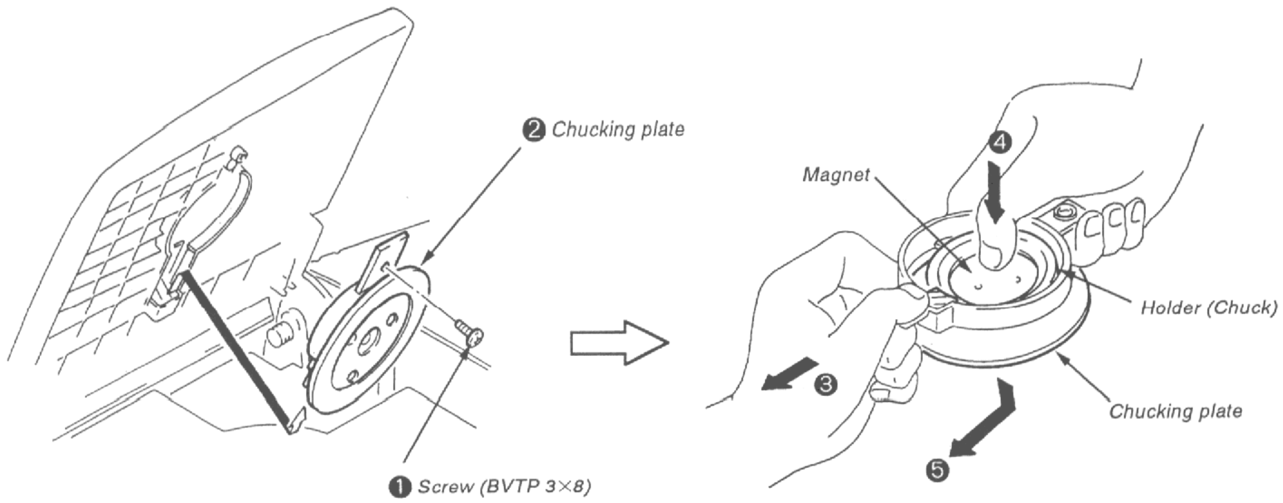
## 3-2. MECHANISM DECK REMOVAL


Cabinet (Rear)
❷ Mechanism deck
❶ Screws (BVTP 3×10)

## 3-3. CD CABINET SECTION REMOVAL


Handle
❶ Claw
❸ Knob (tone)
Handle
❷
❹
Handle
❶ Claw
Cabinet (Rear)
CD Cabinet Section

## 3-4. MAGNET, CHUCKING PLATE REMOVAL


❷ Chucking plate
❶ Screw (BVTP 3×8)
Magnet
❹
Holder (Chuck)
❸
Chucking plate
❺

# SECTION 4
# ADJUSTMENTS

## 4-1. MECHANICAL ADJUSTMENTS

### PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :

| | |
|---|---|
| record/playback head | pinch roller |
| erase head | rubber belts |
| capstan | idlers |

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

**Torque Measurement**

| Torque | Torque Meter | Meter Reading |
|---|---|---|
| Forward | CQ-102C | 30 – 70g•cm<br>(0.42 – 0.97 oz•inch) |
| Forward back tension | CQ-102C | 1.5 – 5.5g•cm<br>(0.020 – 0.076 oz•inch) |
| Fast Forward | CQ-201B | more than 60g•cm<br>(more than 0.84 oz•inch) |
| Rewind | CQ-201B | more than 60g•cm<br>(more than 0.84 oz•inch) |

**Tape Tension Measurement**

| Torque Meter | Meter Reading |
|---|---|
| CQ-403A | more than 100g<br>(more than 3.53 oz) |

## 4-2. ELECTRICAL ADJUSTMENTS

**TAPE RECORDER SECTION**

**Standard Output Level**

| Output terminal | HP OUT |
|---|---|
| load impedance | 32 Ω |
| output signal level | 0.25V ( – 10dB) |

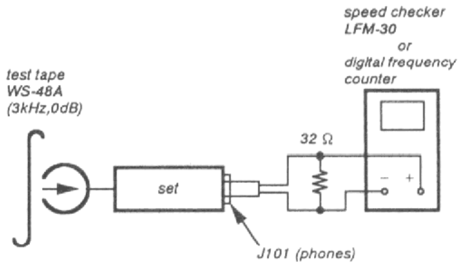
**Test Tape**

| Type | Signal | Used for |
|---|---|---|
| WS-48A | 3kHz, 0dB | Tape Speed Adjustment |
| P-4-A063 | 6.3kHz, – 10dB | Head azimuth Adjustment |

### Tape Speed Adjustment

**Procedure :**

Mode : playback

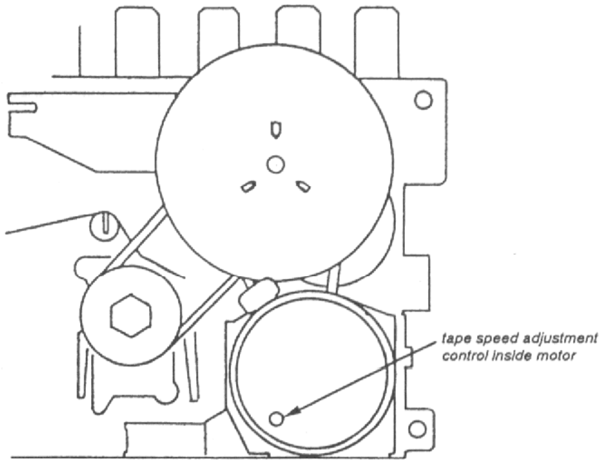


**Adjustment Value :**

| Speed checker | Digital frequency counter |
|---|---|
| – 1 to +1% | 2,970 – 3,030 Hz |

Frequency difference between the beginning and the end of the tape should be within 1.5% (45Hz).

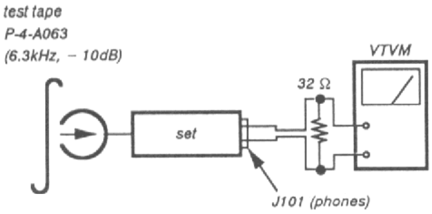
**Adjustment Location :**



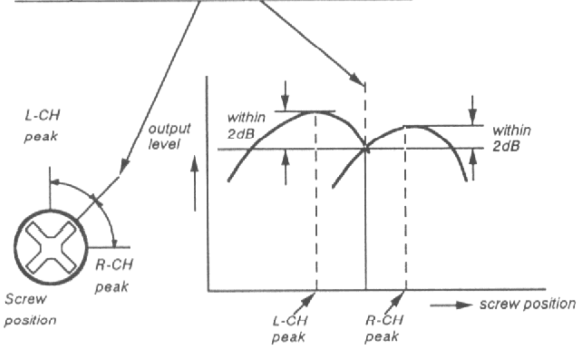
### Record/Playback Head Azimuth Adjustment

**Procedure :**

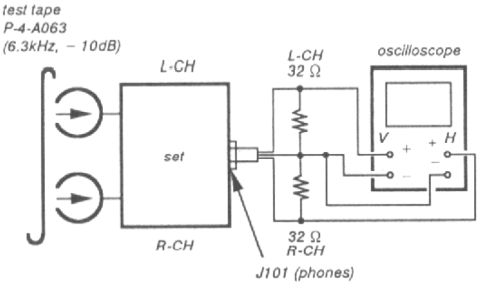
1. Mode : playback

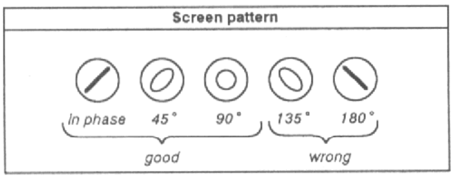

test tape
P-4-A063
(6.3kHz, − 10dB)
VTVM
32 Ω
set
J101 (phones)

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2dB.

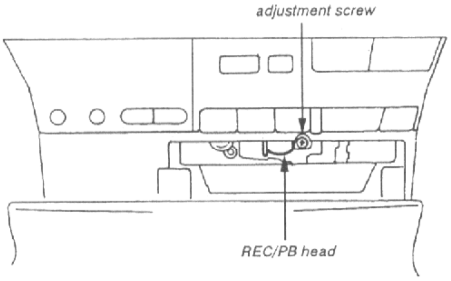

L-CH
peak
output
level
within
2dB
within
2dB
R-CH
peak
Screw
position
L-CH
peak
R-CH
peak
screw position

3. Phase Check
   Mode : playback


test tape
P-4-A063
(6.3kHz, − 10dB)
L-CH
L-CH
32 Ω
oscilloscope
set
V
H
R-CH
32 Ω
R-CH
J101 (phones)


Screen pattern
in phase
45°
90°
135°
180°
good
wrong

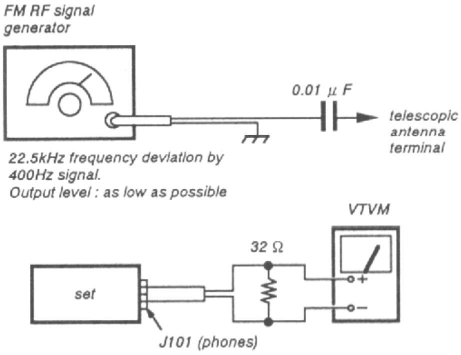
**Adjustment Location :** − record/playback head −


adjustment screw
REC/PB head

## TUNER SECTION

### FM Section

BAND switch : FM
Volume : MIN

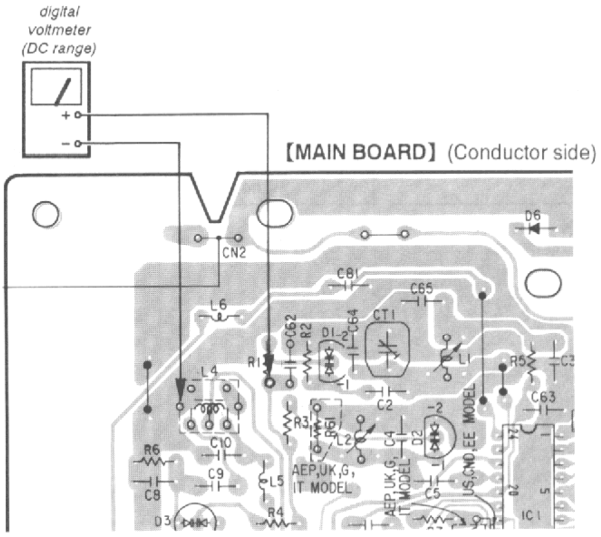

FM RF signal
generator
0.01 μF
telescopic
antenna
terminal
22.5kHz frequency deviation by
400Hz signal.
Output level : as low as possible
VTVM
32 Ω
set
J101 (phones)

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

### FM CV Voltage Adjustment

**Setting :**

BAND : FM
VOLUME : as required


digital
voltmeter
(DC range)
【MAIN BOARD】 (Conductor side)
CN2
D6
C81
C65
L6
C62
R2
D1
C64
CT1
L1
R1
R5
C3
L4
C2
C63
R3
R61
L2
C4
D2
R6
C10
C9
L5
AEP,UK,G,
IT MODEL
AEP,UK,G,
IT MODEL
US,CND,EE MODEL
C5
C8
D3
R4
IC1

**Procedure :**

1. Tune the set to 108.0MHz.
2. Adjust L2 to obtain a 4.0 ± 0.2V on the digital voltmeter.
3. Tune the set to 87.5MHz.
4. Confirm that the voltage reading on the digital voltmeter is 1.8 ± 0.2V.

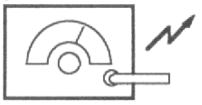
**Adjustment Location :** Main board

| FM TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on VTVM. | |
| L1 | 87.5MHz |
| CT1 | 108.0MHz |

**AM Section**

BAND switch : AM
Volume : MIN

*AM RF signal generator*



*Put the lead-wire antenna close to the set.*

*30% amplitude modulation by 400Hz signal.*
*Output level : as low as possible*

### AM CV Voltage Adjustment

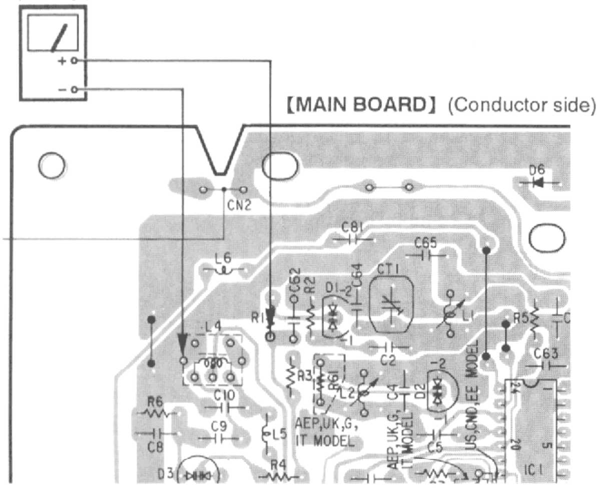
**Setting :**

BAND : FM
VOLUME : as required

no mark : US, Canadian model
〈 〉 : AEP, UK, Italian model

*digital voltmeter (DC range)*

**[MAIN BOARD]** (Conductor side)



**Procedure :**

1. Tune the set to 1,611kHz.
2. Adjust L4 to obtain a 5.2 ± 0.2V ⟨4.8 ± 0.2V⟩ on.
3. Tune the set to 531kHz.
4. Confirm that the voltage reading on the digital voltmeter is 0.8 ± 0.2V ⟨0.8 ± 0.2V⟩.

**Adjustment Location :** Main board

| AM IF ALIGNMENT | |
|---|---|
| Adjust for a maximum reading on VTVM. | |
| CFT1 | 455kHz ⟨455kHz⟩ |

| AM TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on VTVM. | |
| L3 | 620kHz ⟨621kHz⟩ |
| CT2 | 1,400kHz ⟨1,401kHz⟩ |

## CD SECTION

### Note on Adjustment

1. Perform adjustment in test mode.
   After adjustment, be sure to release test mode.
2. Perform adjustments in the order given.
3. Use the disc (YEDS-18. Part No. 3-702-101-01) only when so indicated.

### Before adjustment

Put the set into test mode and perform the following checks. Repair if there are any problems.

- **Setting of Test Mode**

1. While press the TUNING – , □ (CD) and VOLUME – buttons, insert the AC power supply.
2. LCD801 indicator brinks the test mode pattern.

- **Release the Test Mode**

Push OFF the POWER button, the test mode is release.

- **Sled Motor Check**

1. press ▷II key, then press OFF button.
2. Press ▶▶I , I◀◀ keys and confirm that the Optical pick-up moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises. (Cancellation of BTL mute)
   ▶▶I : Optical pick-up moves to the outer circumference
   I◀◀ : Optical pick-up moves to the inner circumference

- **Focus Search Check**

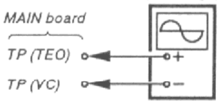
1. Press ▷II key. (Focus search operation is performed continuously.)
2. Look at the Optical pick-up objective lens and confirm that it moves up and down smoothly, with no catching or abnormal noises.
3. Press □ button.
   Confirm that focus search operation stops. If it does not , press □ button again longer.

**Note :** When the malfunction is occurred by mis-passing other keys, turn off the power and check again from making the test mode.

### E-F Balance Adjustment

This adjustment is to be done when the optical block is replaced.

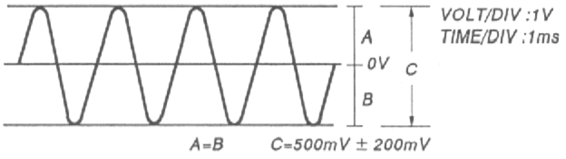
*oscilloscope (DC range)*



**Procedure :**

1. Connect oscilloscope to test point TP (VC) and TP (TEO) on main board.
2. Put the set into test mode.
   (LCD indication : brinks the test mode pattern)
3. Push the OPEN/CLOSE button to open the cd Lid and insert disc (YEDS-18).
   (LCD indication : brinks the test mode pattern)
4. Press the ▶▶I and I◀◀ buttons to move the FOP to the center.
5. Push the ▷II button. (LCD indication : PL 7-F )
6. Push the □ button. (LCD indication : St 7-F )
7. Push the ▷II button. (LCD indication : CdF- )

8. Adjust RV703 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.
9. Release test mode after adjustment is completed.



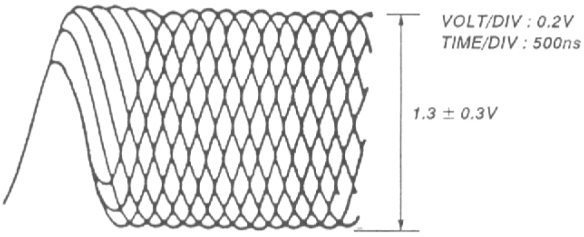
**Adjustment Location :** Main board

### Focus Bias Adjustment

This adjustment is to be done when the optical block is replaced.

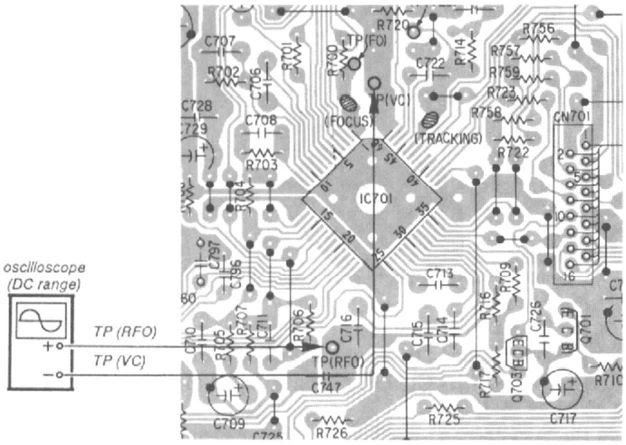
**Adjustment procedure :**

1. Connect oscilloscope to test point TP (VC) and TP (RFO) on main board.
2. Put the set into test mode.
3. Optical pick-up setting to the center by ⏭ or ⏮ button pushing.
4. Put disc (YEDS-18) in and press the ▷Ⅱ button.
5. Press the ▷Ⅱ button.(Tracking servo ON)
6. Adjust RV701 so that the oscilloscope waveform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape ( ◇ ) in the center of the waveform can be clearly distinguished.
7. Release test mode after adjustment is completed.
   - RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

**【MAIN BOARD】** (Conductor side)


oscilloscope
(DC range)
TP (RFO)
TP (VC)
+
−
C707
R702
C706
R701
R700
TP(FO)
R720
C722
R714
R756
R757
R759
R723
R758
TP(VC)
(FOCUS)
(TRACKING)
CN701
C728
C729
C708
R703
R704
R722
IC701
C797
C796
R705
R707
C711
R706
C716
TP(RFO)
C715
C714
C713
R716
R709
C726
Q701
Q703
R717
C710
C747
C709
R726
R725
C717
R710

**Adjustment Location :** Main board

### Focus/Tracking Gain Adjustment

A frequency responce analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

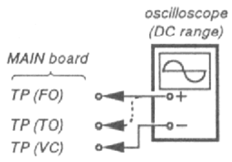
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

| Gain / Symptoms | Focus | Tracking |
|---|---|---|
| ● The time until music starts becomes longer for STOP → ▷Ⅱ button or automatic selection. (⏮, ⏭ buttons pressed.) (Normally takes about 2 seconds.) | low | low or high |
| ● Music does not start and disc continues to rotate for STOP → ▷Ⅱ button or automatic selection. (⏮, ⏭ buttons pressed.) | – | low |
| ● Sound is interrupted during PLAY. Or time counter display stops progressing. | – | low |
| ● More noise during 2-axis device operation. | high | high |

The following is a simple adjustment method.

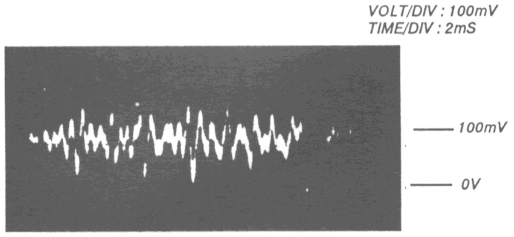
– **Primary Adjustment** –

**Note :** Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment.If the positions after the primary adjustment are only a little different, return the controls to the original position.

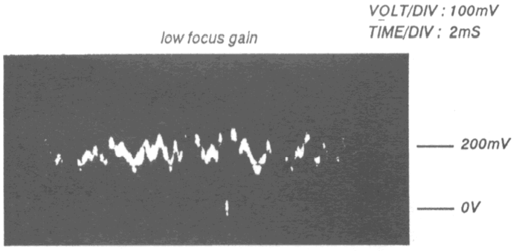

oscilloscope
(DC range)
MAIN board
TP (FO)
TP (TO)
TP (VC)
+
−

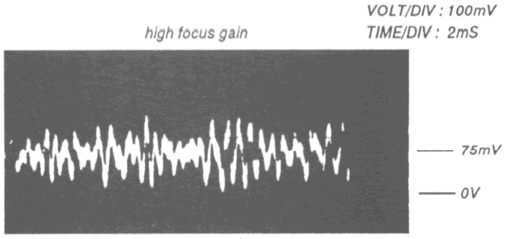
**Procedure :**

1. Keep the set horizontal.
   If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Insert disc (YEDS-18) and press ▷Ⅱ button.
3. Connect oscilloscope to TP(FO) and TP (VC) on MAIN board.
4. Adjustment RV702 on digital board so that the waveform is as shown in the figure below. (focus gain adjustment)

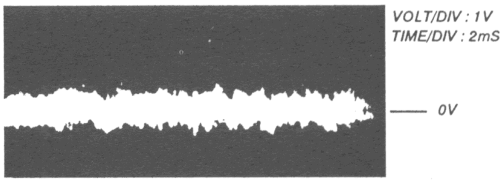


- Incorrent Examples (DC level changes more than on adjusted waveform)

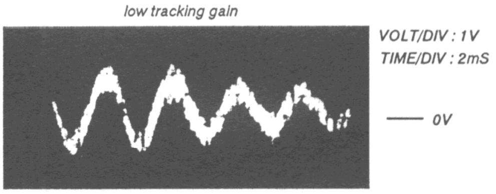


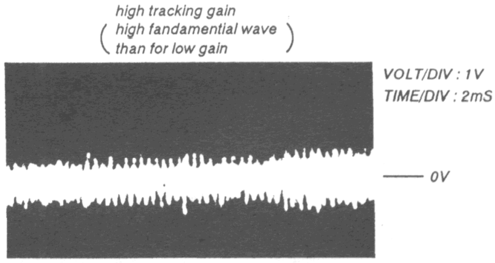


5. Connect oscilloscope to TP(TO) and TP(VC) on MAIN board.
6. Adjust RV704 on digital board so that the waveform is as shown in the figure below. (Tracking Gain Adjustment)



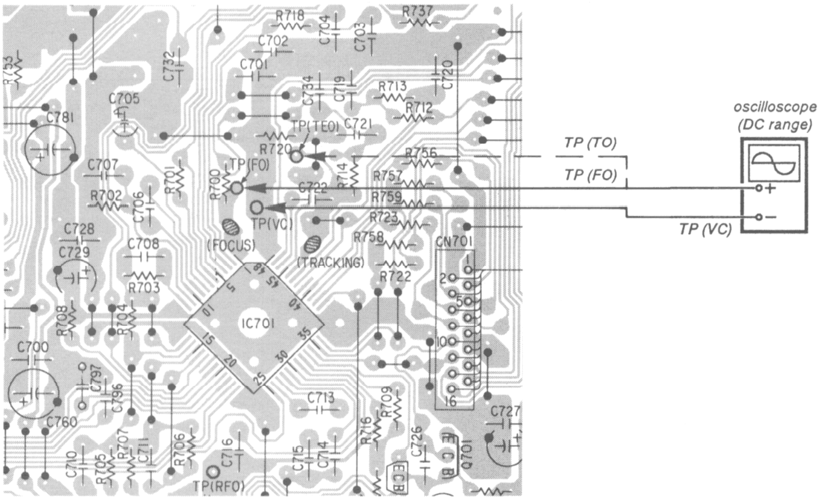
- Incorrect Examples (fundamential wave appears)



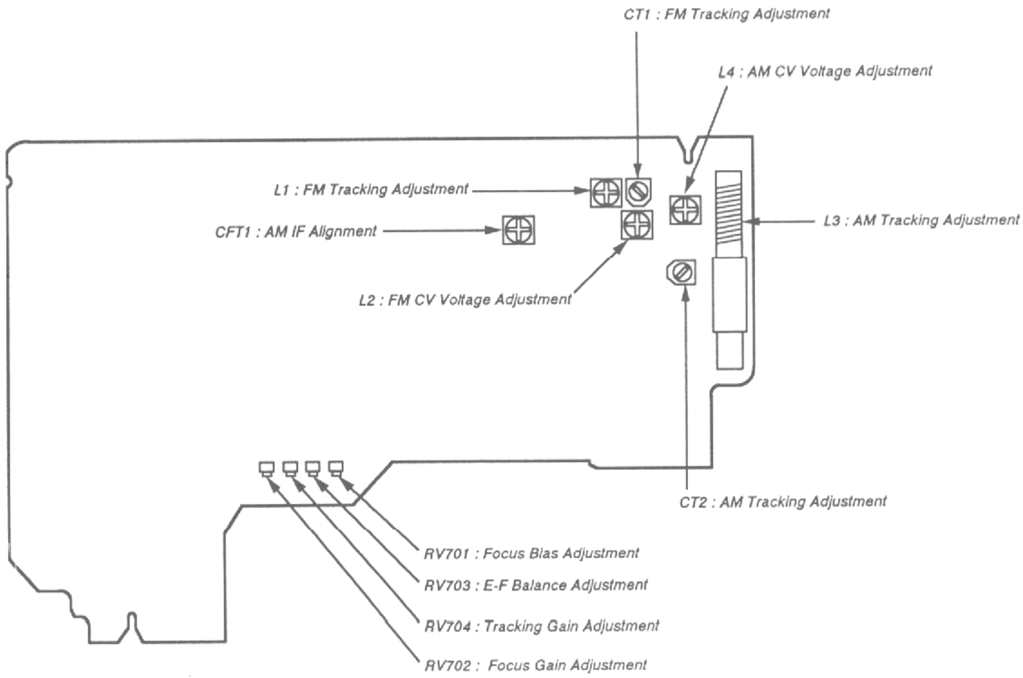


**Adjustment Location :** Main board

**【MAIN BOARD】** (Conductor side)


R718
R737
C702
C704
C703
C701
C732
C720
R753
C734
C719
R713
C705
R712
C781
TP(TEO)
C721
R720
R756
C707
TP(FO)
R714
R757
R702
R701
R700
C722
R759
C706
TP(VC)
R723
C728
(FOCUS)
R758
C729
C708
(TRACKING)
CN701
R703
R722
IC701
R708
R704
C700
C797
C796
C713
R709
C727
C760
R707
R716
C710
R705
C711
R706
C716
C715
C714
C726
Q701
TP(RFO)
TP (TO)
TP (FO)
TP (VC)
oscilloscope
(DC range)
+
−

**Adjustment Location :** Main board (Component side)


CT1 : FM Tracking Adjustment
L4 : AM CV Voltage Adjustment
L1 : FM Tracking Adjustment
L3 : AM Tracking Adjustment
CFT1 : AM IF Alignment
L2 : FM CV Voltage Adjustment
CT2 : AM Tracking Adjustment
RV701 : Focus Bias Adjustment
RV703 : E-F Balance Adjustment
RV704 : Tracking Gain Adjustment
RV702 : Focus Gain Adjustment

# SECTION 5
# EXPLANATION OF IC TERMINALS

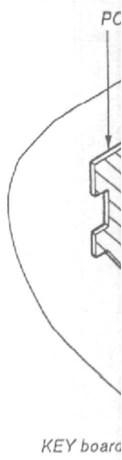
**IC401 MSM65353-014GS-V1K2 (Microcomputer)**

| Pin No. | Pin name | I/O | Description |
|---|---|---|---|
| 1 – 4 | COM1 – 4 | O | LCD common output. |
| 5 – 27 | SEG0 – 22 | O | LCD segment output. |
| 28 – 36 | NC | – | Not used. (OPEN) |
| 37 | A-GND | – | Analog GND. |
| 38 – 40 | KEY1 – 3 | I | Key input. |
| 41 | NC | – | Not used. (+5V connection) |
| 42 | 9/10 | I | 9k/10k select input. |
| 43 | VOL-IN1 | I | Volume initial setting input. |
| 44 | J/L/S | I | Radio destination band select input. |
| 45 | SOUND-INI | I | Sound initial setting input. |
| 46 | VRH | – | AD reference voltage input. |
| 47 | AVDD | – | Anlog power supply. (+5V) |
| 48 | INI | O | Initial setteing output (for destination) |
| 49 | ROM-DAT | I/O | EPROM data input/output. |
| 50 | ROM-CLK | O | EPROM clock output. |
| 51 | ROM-CE | O | EPROM chip select output. |
| 52 | PCON | O | Power ON/OFF control output. |
| 53 | CD | O | Function CD output. |
| 54 | RADIO | O | Function radio output. |
| 55 | TAPE | O | Function tape output. |
| 56 | DUB | O | Function dubbing output. |
| 57 | V-DATA | O | Volume data output. |
| 58 | V-CLK | O | Volume clock output. |
| 59 | DBB | O | DBFB ON/OFF output. |
| 60 | A-MUTE | O | Audio mute output. |
| 61 | C-CLK | O | Clock output for CD DSP command. |
| 62 | C-XLAT | O | CD system latch output. |
| 63 | C-DATA | O | CD DSP command data output. |
| 64 | NC | – | Not used. (OPEN) |
| 65 | C-SQSO | I | CD SUBQ input. |
| 66 | C-SQCK | O | Clock output for CD SUBQ. |
| 67 | RMC | I | Remote commander input. |
| 68 | C-MUTE | O | CD mute output. |
| 69 | NC | – | Not used. (OPEN) |
| 70 | C-SENS | I | CD-SENS input. |
| 71 | C-XRST | O | CD system reset output. |
| 72 | VDD | – | Digital power supply. (+5V) |
| 73 | NC | – | Not used. (OPEN) |
| 74 | NC | – | Not used. (OPEN) |
| 75 | NC | – | Not used. (OPEN) |

| Pin No. |
|---|
| 76 |
| 77 |
| 78 |
| 79 |
| 80 |
| 81 |
| 82 |
| 83 |
| 84 |
| 85 |
| 86 |
| 87 |
| 88 |
| 89 |
| 90 |
| 91 |
| 92 |
| 93 |
| 94 |
| 95, 96 |
| 97 |
| 98 – 100 |

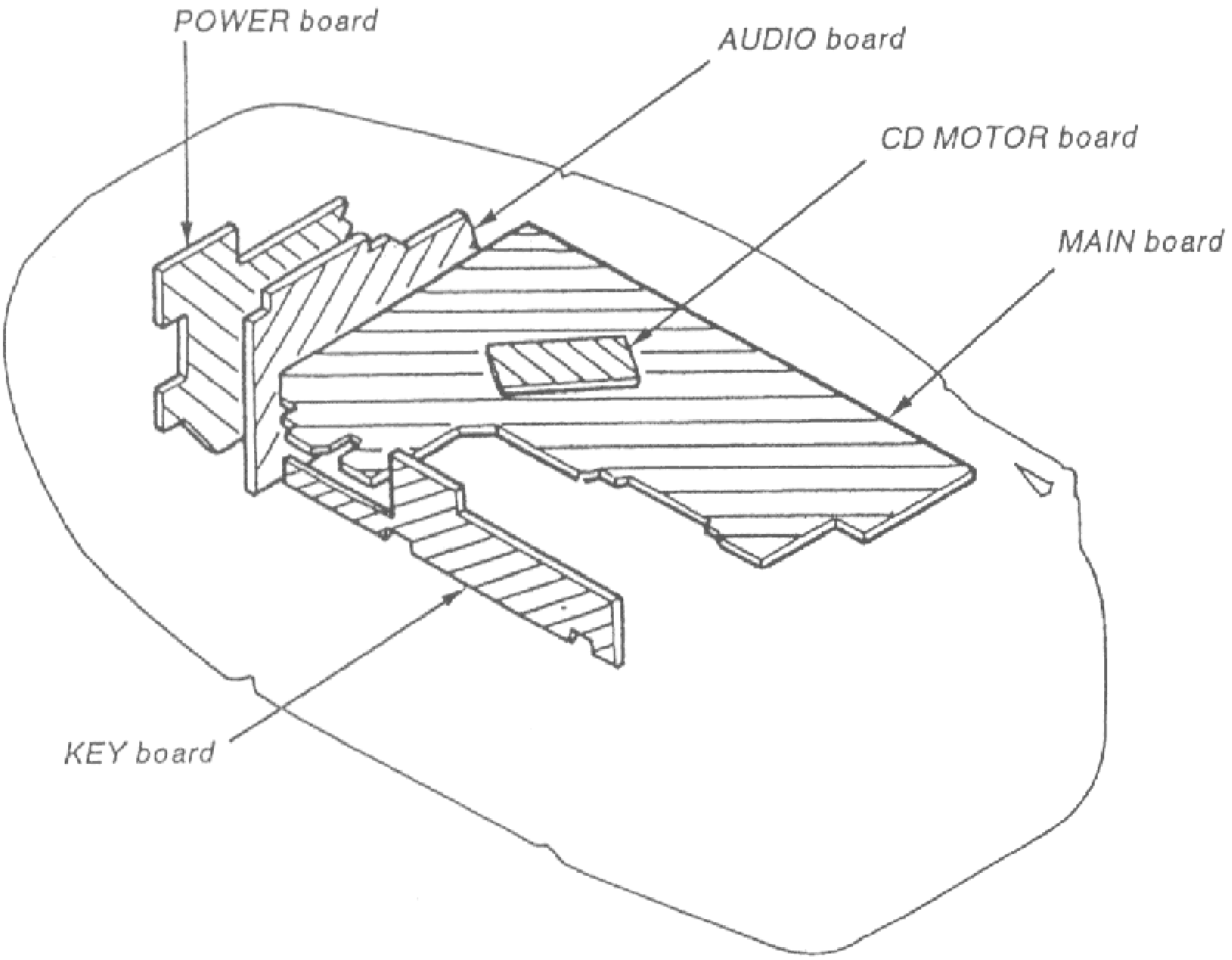
| Pin No. | Pin name | I/O | Description |
|---|---|---|---|
| 76 | C-SCOR | I | CD-SCOR input. |
| 77 | OPEN-1 | I | OPEN input. |
| 78 | CLOSE-1 | I | CLOSE input. |
| 79 | REC | I | REC input. |
| 80 | C-COUNT | I | CD count input. |
| 81 | $\overline{\mathrm{OSCI}}$ | O | Main clock output. (4.19MHz) |
| 82 | OSC0 | I | Main clock input. (4.19MHz) |
| 83 | D-GND | – | Digital GND. |
| 84 | TX | I | SUB clock input. (32.768kHz) |
| 85 | $\overline{\mathrm{TX}}$ | O | SUB clock output. (32.768kHz) |
| 86 | NC | – | Not used. (OPEN) |
| 87 | R-MUTE | O | Mute for tuner. |
| 88 | R-ST | I | R-STEREO input. |
| 89 | R-CE | O | Tuner PLL IC CE output. |
| 90 | REGCHK | I | Regulator check input. |
| 91 | R-DATAO | O | Tuner PLL IC data output. |
| 92 | R-COUNT | I | Tuner PLL IC count output. |
| 93 | R-CLK | O | Tuner PLL IC clock output. |
| 94 | $\overline{\mathrm{RST}}$ | I | Reset input. |
| 95, 96 | NC | – | Not used. (OPEN) |
| 97 | VDDL | – | Bias power supply for LCD drive. |
| 98 – 100 | VDD1 – 3 | – | Bias power supply for LCD drive. |

**6-1. CIRCUI**



# SECTION 6
# DIAGRAMS

## 6-1. CIRCUIT BOARDS LOCATION


POWER board
AUDIO board
CD MOTOR board
MAIN board
KEY board

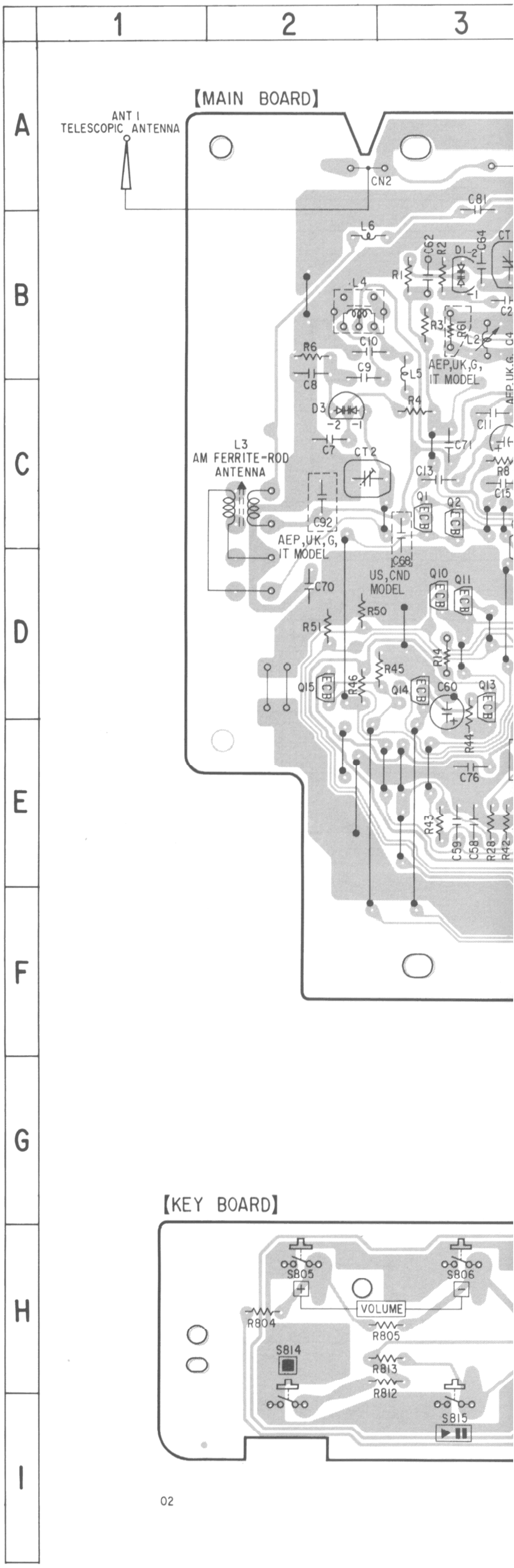
## ● SEMICONDUCTOR LOCATION

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D1 | B - 3 | Q1 | C - 3 |
| D2 | B - 3 | Q2 | C - 3 |
| D3 | C - 2 | Q3 | C - 3 |
| D6 | A - 4 | Q4 | C - 3 |
| D7 | A - 4 | Q10 | D - 3 |
| D301 | F - 23 | Q11 | D - 3 |
| D302 | F - 22 | Q13 | D - 3 |
| D303 | E - 22 | Q14 | D - 3 |
| D304 | E - 2 | Q15 | D - 2 |
| D305 | F - 21 | Q16 | D - 4 |
| D306 | E - 21 | Q18 | E - 5 |
| D308 | B - 9 | Q19 | B - 5 |
| D309 | B - 9 | Q101 | E - 23 |
| D310 | F - 20 | Q151 | B - 21 |
| D311 | B - 11 | Q201 | E - 23 |
| D312 | F - 13 | Q251 | C - 23 |
| D313 | F - 13 | Q301 | E - 21 |
| D314 | D - 12 | Q302 | E - 21 |
| D315 | B - 6 | Q303 | E - 21 |
| D316 | E - 22 | Q304 | E - 22 |
| D317 | E - 23 | Q305 | E - 22 |
| D371 | E - 25 | Q306 | E - 23 |
| D396 | B - 21 | Q307 | F - 23 |
| D397 | B - 21 | Q308 | B - 9 |
| D399 | D - 23 | Q309 | B - 9 |
| D702 | B - 7 | Q310 | E - 22 |
| D703 | B - 7 | Q311 | B - 9 |
| D801 | H - 6 | Q312 | B - 9 |
| D802 | H - 6 | Q313 | F - 21 |
| D901 | E - 15 | Q314 | F - 20 |
| D902 | F - 17 | Q315 | D - 12 |
| D903 | F - 15 | Q316 | E - 21 |
| D904 | F - 16 | Q317 | A - 8 |
| D905 | E - 16 | Q318 | D - 13 |
|  |  | Q319 | F - 13 |
| IC1 | C - 4 | Q320 | E - 13 |
| IC3 | E - 4 | Q371 | F - 25 |
| IC301 | D - 24 | Q372 | E - 24 |
| IC302 | D - 23 | Q373 | E - 24 |
| IC303 | D - 21 |  |  |
|  |  | Q374 | E - 24 |
| IC304 | C - 23 | Q375 | E - 24 |
| IC311 | D - 13 | Q376 | E - 24 |
| IC401 | G - 11 | Q377 | E - 24 |
| IC402 | H - 10 | Q701 | E - 11 |
| IC403 | G - 13 |  |  |
|  |  | Q702 | B - 7 |
| IC701 | E - 10 | Q703 | E - 10 |
| IC702 | D - 7 | Q705 | B - 8 |
| IC703 | B - 10 | Q760 | B - 8 |
| IC704 | B - 7 | Q770 | B - 8 |
| IC801 | G - 6 |  |  |

**Note:**

- o— : parts extracted from the component side.
- ░ : Pattern on the side which is seen.
- Abbreviations
  CND : Canadian
  G : German
  IT : Italian

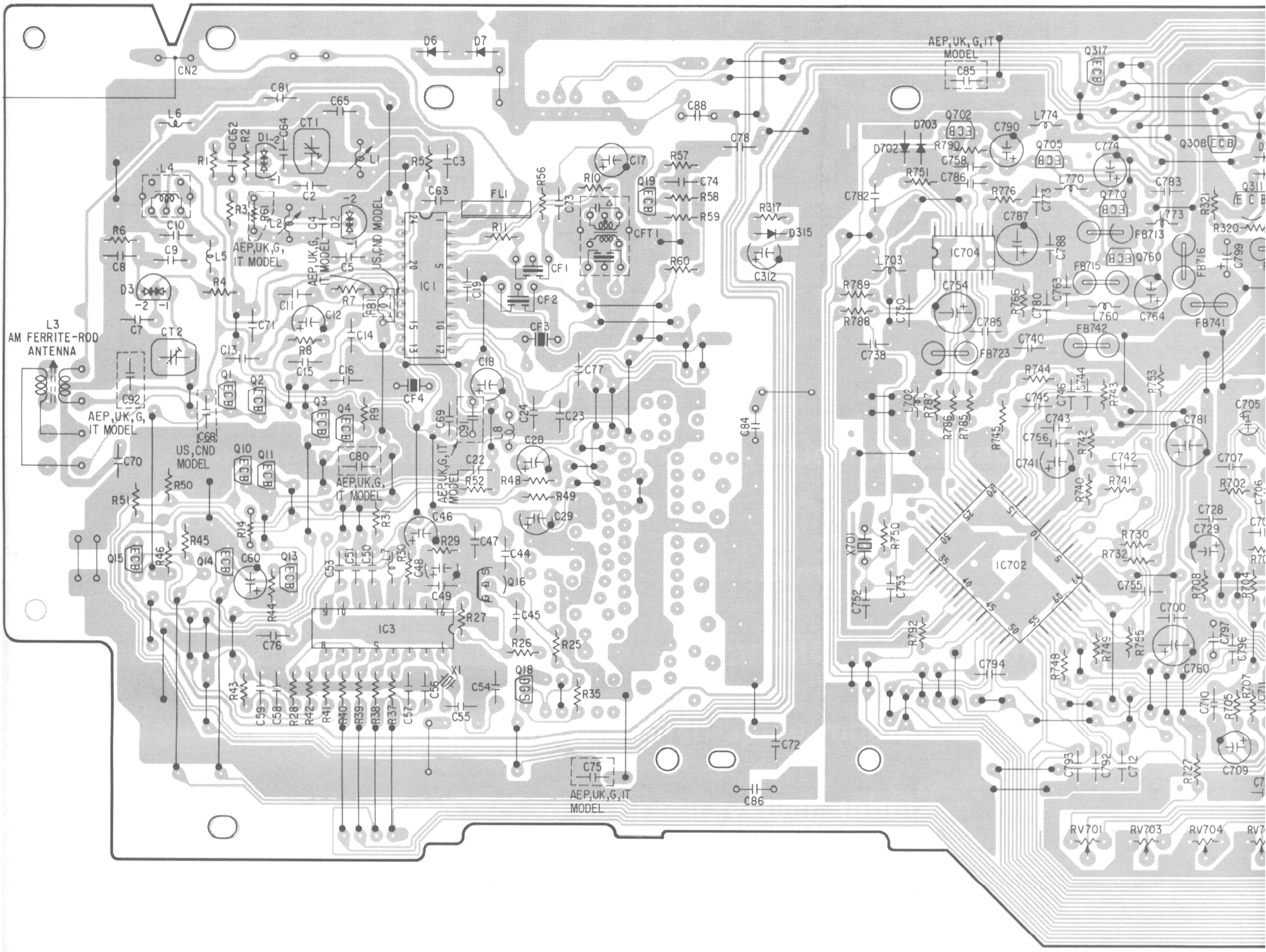
## 6-2. PRINTED WIRING BOARDS


1
2
3
A
B
C
D
E
F
G
H
I
【MAIN BOARD】
ANT I
TELESCOPIC ANTENNA
CN2
L3
AM FERRITE-ROD ANTENNA
AEP,UK,G, IT MODEL
US,CND MODEL
CT2
C92
C68
C70
R50
R51
Q15
Q14
Q13
Q10
Q11
Q1
Q2
D3
L4
L5
L6
R1
R3
R4
R6
C7
C8
C9
C10
C60
C76
R45
R46
R14
R44
R43
R42
R28
C58
C59
【KEY BOARD】
S805
S806
S814
S815
VOLUME
R804
R805
R813
R812
02

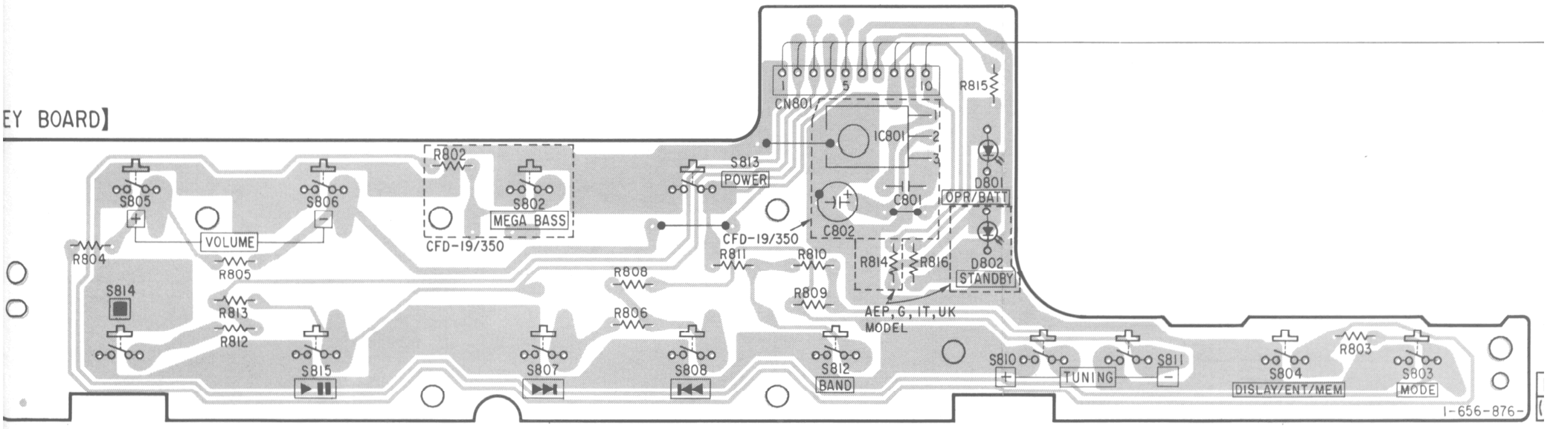
## IG BOARDS

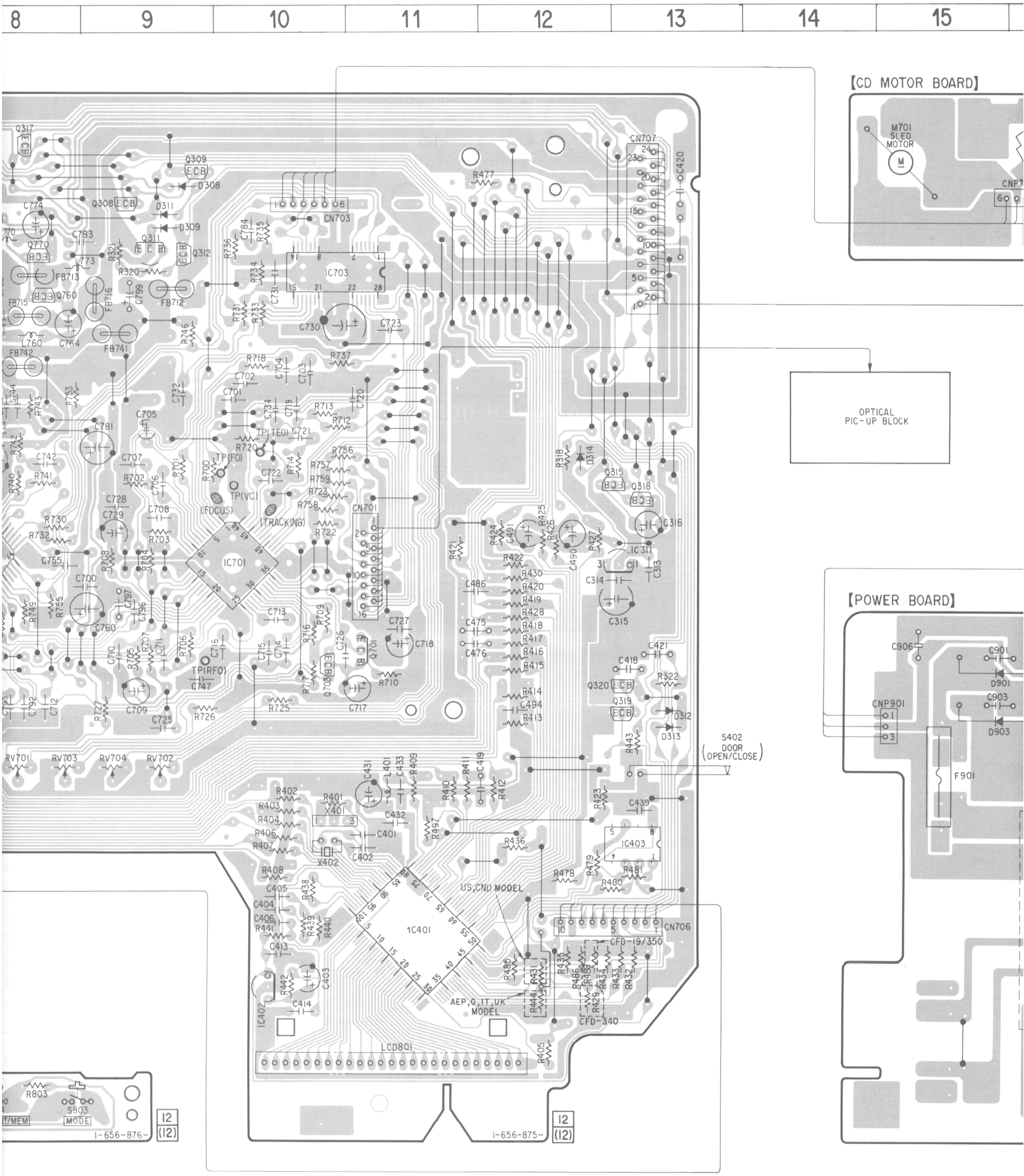
2 3 4 5 6 7 8 9

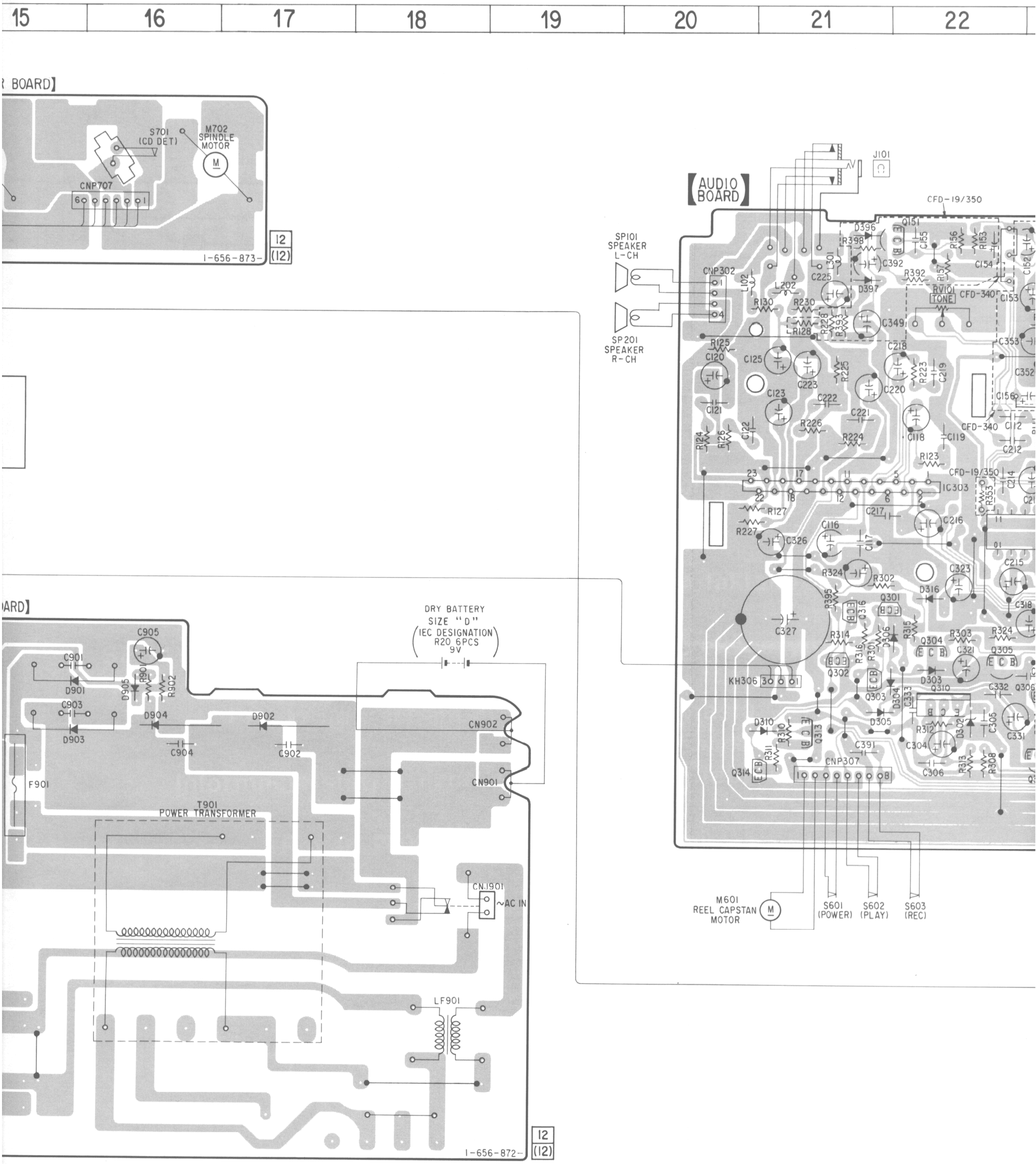
【MAIN BOARD】

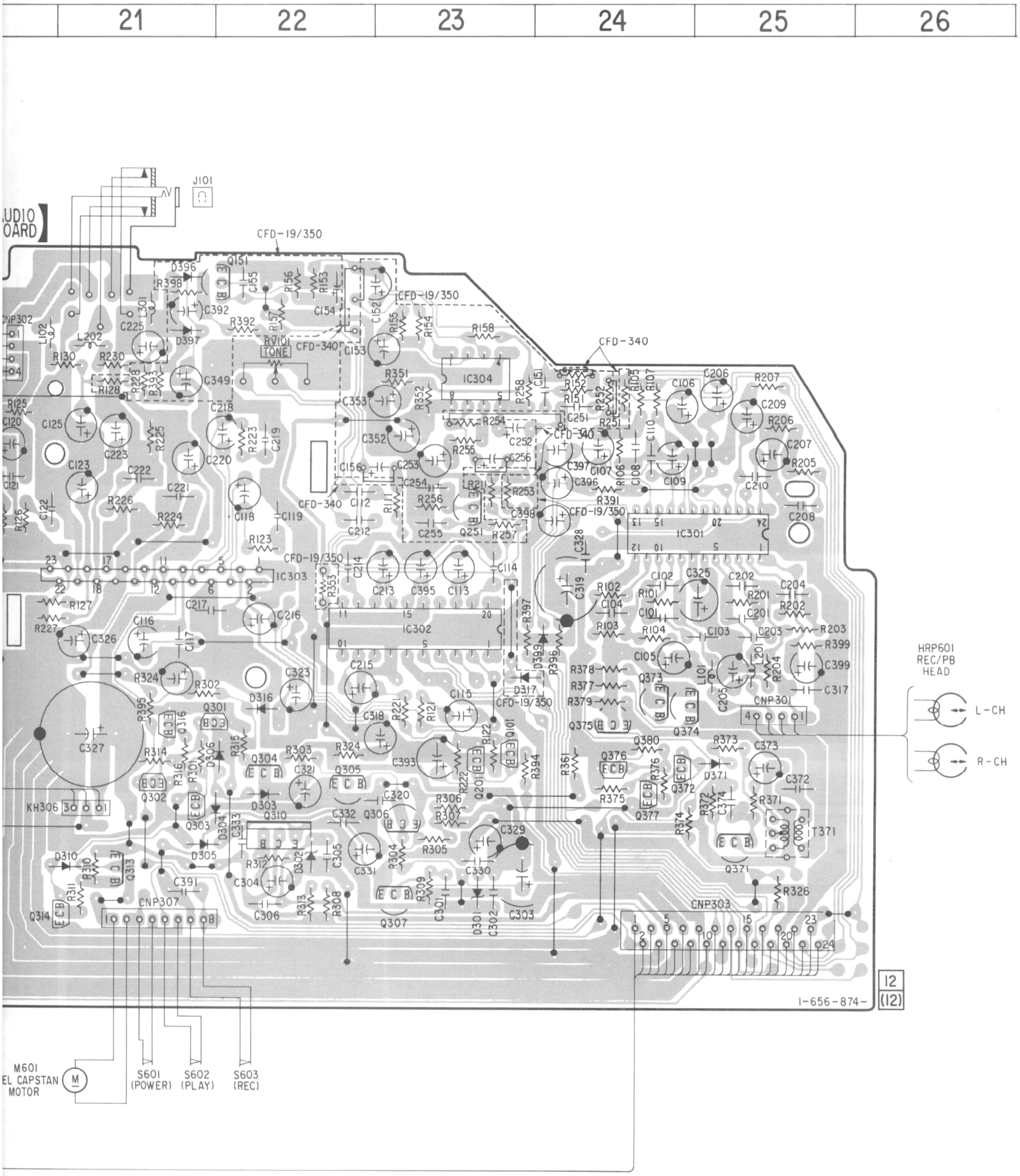

CN2
D6
D7
AEP,UK,G,IT MODEL
C85
Q317
C81
C65
L6
C88
C78
D703
Q702
C790
L774
Q308
D702
R790
Q705
C774
R751
C758
C786
C17
R57
C74
R58
R59
R10
Q19
CFT1
R56
C73
FL1
R11
C63
C3
R5
L1
CT1
D1-2
C64
C62
R2
R1
L4
C2
R3
R61
L2
C4
D2
US,CND MODEL
AEP,UK,G,IT MODEL
C10
R6
C8
C9
L5
C5
R4
IC1
C19
CF1
CF2
CF3
R60
R317
D315
C312
C782
R776
C773
L770
Q770
C783
R321
R320
Q311
C787
C788
FB713
IC704
FB715
Q760
FB716
C799
L703
R789
R788
C750
C754
R766
C780
C763
L760
C764
FB741
C785
C740
FB742
FB723
C738
L3
AM FERRITE-ROD ANTENNA
D3
C7
CT2
C11
C71
R7
FB1
C12
C14
R8
C15
C13
C16
C18
C4
C77
Q1
Q2
Q3
Q4
R9
C92
AEP,UK,G, IT MODEL
C68
US,CND MODEL
C70
Q10
Q11
C80
AEP,UK,G, IT MODEL
C69
C91
L8
C24
C23
C28
C22
R52
R48
R49
C29
C84
R744
C746
C744
R743
R753
C705
R787
R786
R785
R745
C743
C756
R742
C741
C742
R741
R740
C781
C707
R702
C706
R51
R50
R45
R14
R31
C46
R29
C47
C44
R30
C48
C49
Q16
C45
R27
R46
Q15
Q14
C60
Q13
R44
C53
C51
C50
IC3
R26
R25
X701
R750
IC702
C752
C753
R792
R730
C729
C728
R732
C755
R708
R704
C700
C797
C796
R749
R765
R748
C760
C794
C76
R43
C59
C58
R28
R42
R41
R40
R39
R38
R37
C57
C56
X1
C54
C55
Q18
R35
C72
C75
AEP,UK,G,IT MODEL
C86
C710
R705
R707
C793
C792
C712
R727
C709
RV701
RV703
RV704

【KEY BOARD】


CN801
R815
IC801
D801
OPR/BATT
C801
C802
R802
S802
MEGA BASS
CFD-19/350
S813
POWER
S805
S806
VOLUME
R804
R805
CFD-19/350
R811
R810
R808
R814
R816
D802
STANDBY
S814
R813
R812
R806
R809
AEP,G,IT,UK MODEL
S815
S807
S808
S812
BAND
S810
TUNING
S811
S804
DISLAY/ENT/MEM
R803
S803
MODE
1-656-876-

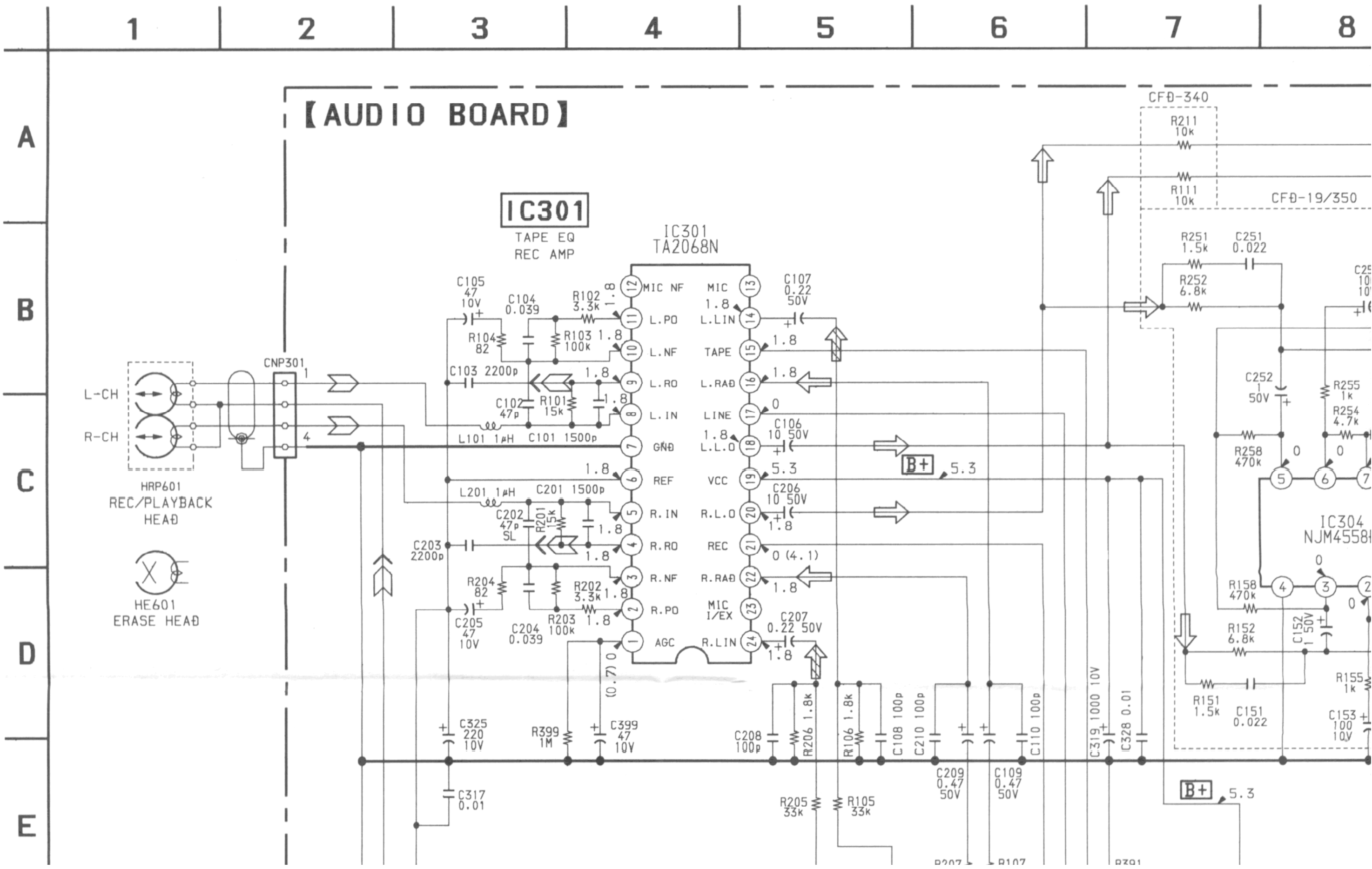

8
9
10
11
12
13
14
15
【CD MOTOR BOARD】
M701
SLED
MOTOR
CNP7
OPTICAL
PIC-UP BLOCK
【POWER BOARD】
CNP901
F901
C906
C901
D901
C903
D903
CN707
CN703
IC703
IC701
CN701
IC311
IC403
IC401
IC402
LCD801
CN706
X401
X402
TP(TEO)
TP(FO)
TP(VC)
(FOCUS)
(TRACKING)
TP(RFO)
S402
DOOR
(OPEN/CLOSE)
US,CND MODEL
AEP,G,IT,UK
MODEL
CFD-19/350
CFD-340
RV701
RV703
RV704
RV702
R803
S803
MODE
T/MEM
1-656-876-
12
(12)
1-656-875-
12
(12)


15
16
17
18
19
20
21
22
BOARD】
S701
(CD DET)
M702
SPINDLE
MOTOR
CNP707
6
1
1-656-873-
12
(12)
DRY BATTERY
SIZE "D"
(IEC DESIGNATION
R20 6PCS
9V
ARD】
C905
C901
D901
D905
R901
R902
C903
D903
D904
D902
C904
C902
CN902
CN901
F901
T901
POWER TRANSFORMER
CN1901
~AC IN
LF901
1-656-872-
12
(12)
【AUDIO BOARD】
J101
CFD-19/350
SP101
SPEAKER
L-CH
SP201
SPEAKER
R-CH
CNP302
L102
L202
R130
R230
R128
R229
R393
C225
L301
D396
R398
C392
Q151
C155
R156
R153
R157
R392
C154
C152
D397
RV101
TONE
CFD-340
C153
C349
C353
R125
C120
C125
C223
R225
C218
R223
C219
C352
C123
C220
C222
C121
C221
C156
R226
CFD-340
C112
C122
R124
R126
R224
C118
C119
C212
R123
CFD-19/350
C214
R353
IC303
23
22
17
18
12
6
5
R127
C217
C216
R227
C116
C326
C117
C215
C323
R324
R302
D316
R395
Q316
Q301
C318
C327
R314
R315
Q304
R303
R324
C321
Q305
R316
R307
D306
Q302
D303
Q310
KH306
C333
D304
Q303
C332
Q306
D305
D310
R310
Q313
R312
Q302
C305
C391
C304
C331
R311
Q314
CNP307
C306
R313
R308
1
8
M601
REEL CAPSTAN
MOTOR
S601
(POWER)
S602
(PLAY)
S603
(REC)


21
22
23
24
25
26
J101
UDIO
OARD
CFD-19/350
CFD-340
NP302
IC301
IC302
IC303
IC304
RV101 TONE
CNP301
CNP303
CNP307
KH306
T371
HRP601
REC/PB
HEAD
L-CH
R-CH
M601
EL CAPSTAN
MOTOR
S601
(POWER)
S602
(PLAY)
S603
(REC)
1-656-874-
12
(12)

## 6-3. SCHEMATIC DIAGRAM (AUDIO SECTION)

- Refer to page 29 for IC Block Diagrams.



1
2
3
4
5
6
7
8
A
B
C
D
E
【AUDIO BOARD】
IC301
TAPE EQ
REC AMP
IC301
TA2068N
CFD-340
R211 10k
R111 10k
CFD-19/350
R251 1.5k
C251 0.022
R252 6.8k
C252 1 50V
R255 1k
R254 4.7k
R258 470k
IC304
NJM4558
R158 470k
R152 6.8k
C152 1 50V
R151 1.5k
C151 0.022
R155 1k
C153 100 10V
C105 47 10V
C104 0.039
R102 3.3k
R104 82
R103 100k
C103 2200p
C102 47p
R101 15k
L101 1μH
C101 1500p
L201 1μH
C201 1500p
C202 47p SL
R201 15k
C203 2200p
R204 82
R202 3.3k
C205 47 10V
C204 0.039
R203 100k
MIC NF
L.PO
L.NF
L.RO
L.IN
GND
REF
R.IN
R.RO
R.NF
R.PO
AGC
MIC
L.LIN
TAPE
L.RAD
LINE
L.L.O
VCC
R.L.O
REC
R.RAD
MIC I/EX
R.LIN
C107 0.22 50V
C106 10 50V
C206 10 50V
C207 0.22 50V
B+ 5.3
0 (4.1)
(0.7) 0
CNP301
L-CH
R-CH
HRP601
REC/PLAYBACK HEAD
HE601
ERASE HEAD
C325 220 10V
C317 0.01
R399 1M
C399 47 10V
C208 100p
R206 1.8k
R106 1.8k
C108 100p
C210 100p
C209 0.47 50V
C109 0.47 50V
C110 100p
C319 1000 10V
C328 0.01
R205 33k
R105 33k
R207
R107
R391

## Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.

| Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Note : Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|---|---|

- B+ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal ( detuned ) conditions.

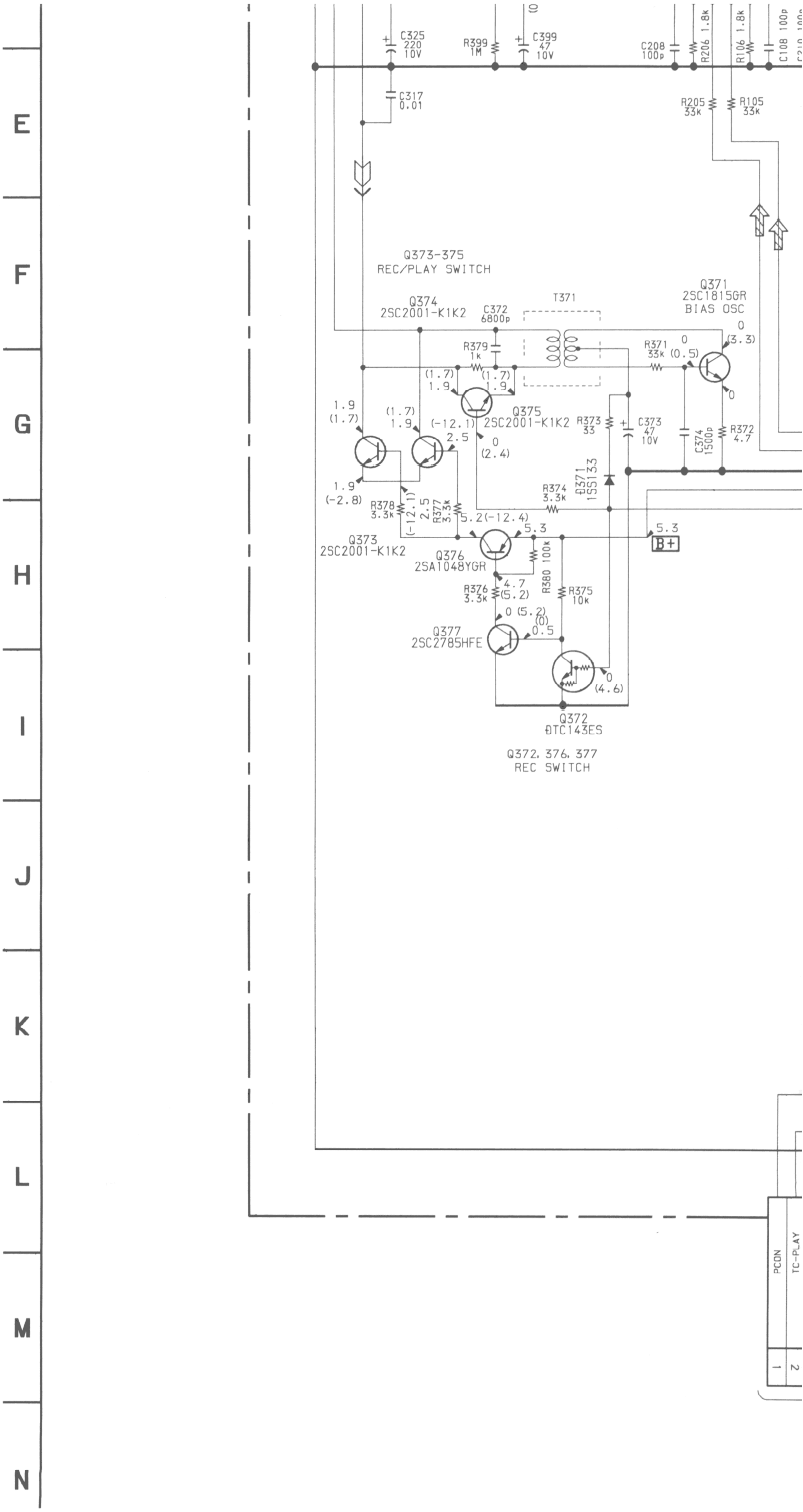
  no mark : FM (RADIO SECTION)
  no mark : TAPE PLAY (TAPE SECTION)
  (      ) : TAPE REC (TAPE SECTION)

- Voltages are taken with a VOM ( Input impedance 10M Ω ). Voltage variations may be noted due to normal production tolerances.
- Signal path.

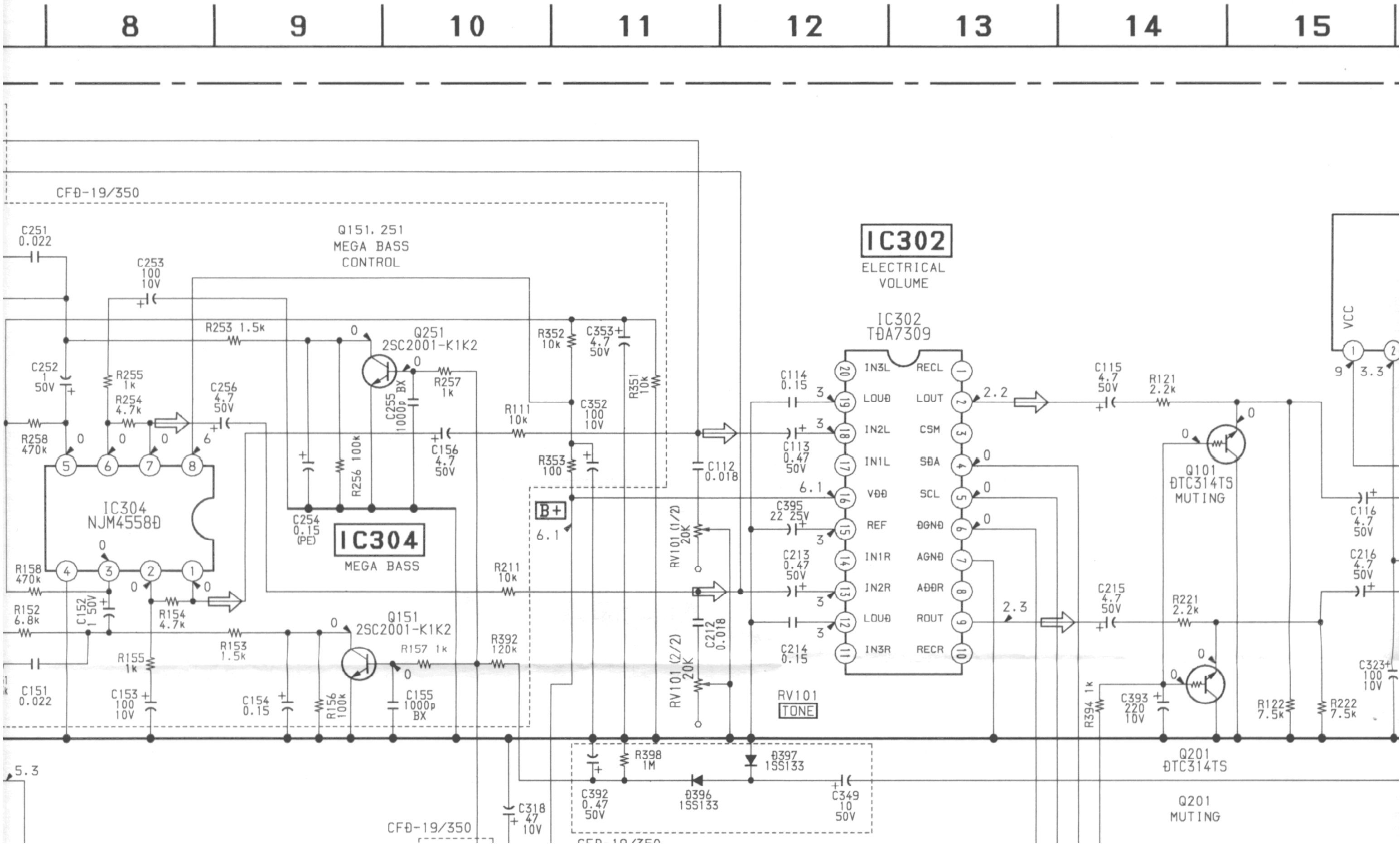
  ⇨ : FM ⊳ : PB ⇨ : CD
  ⊳⊳ : REC

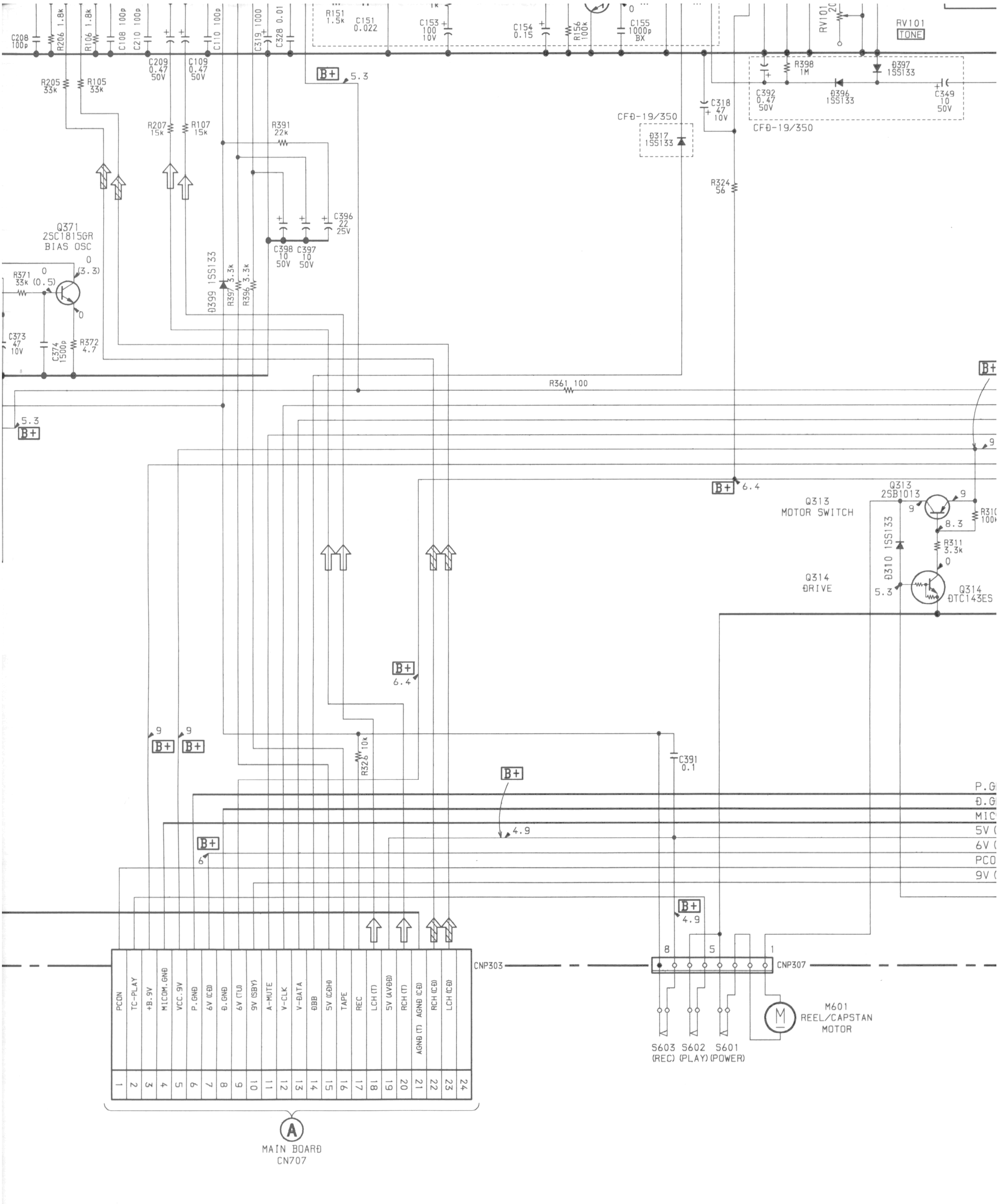
- Abbreviations

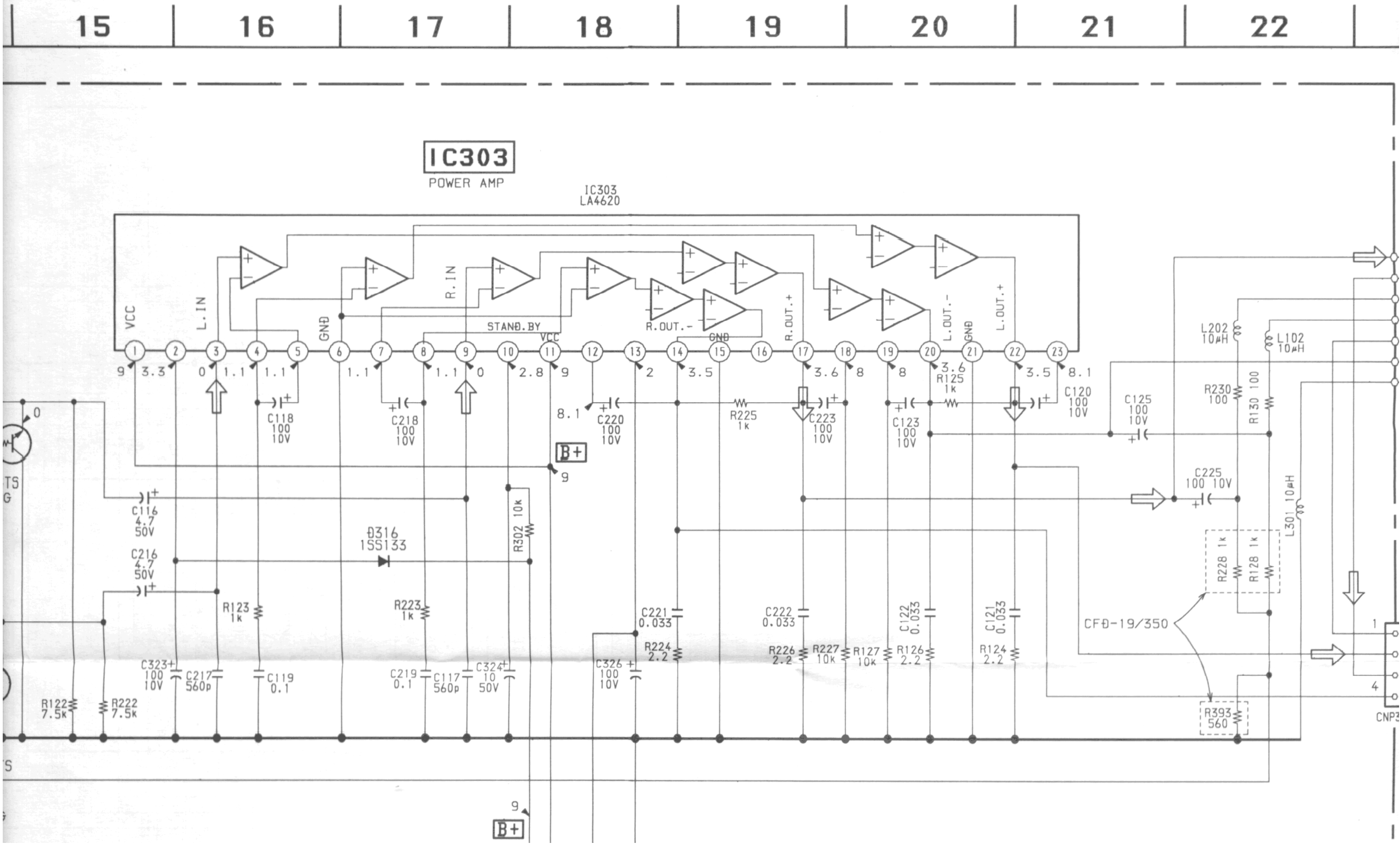
  CND : Canadian
  G : German
  IT : Italian

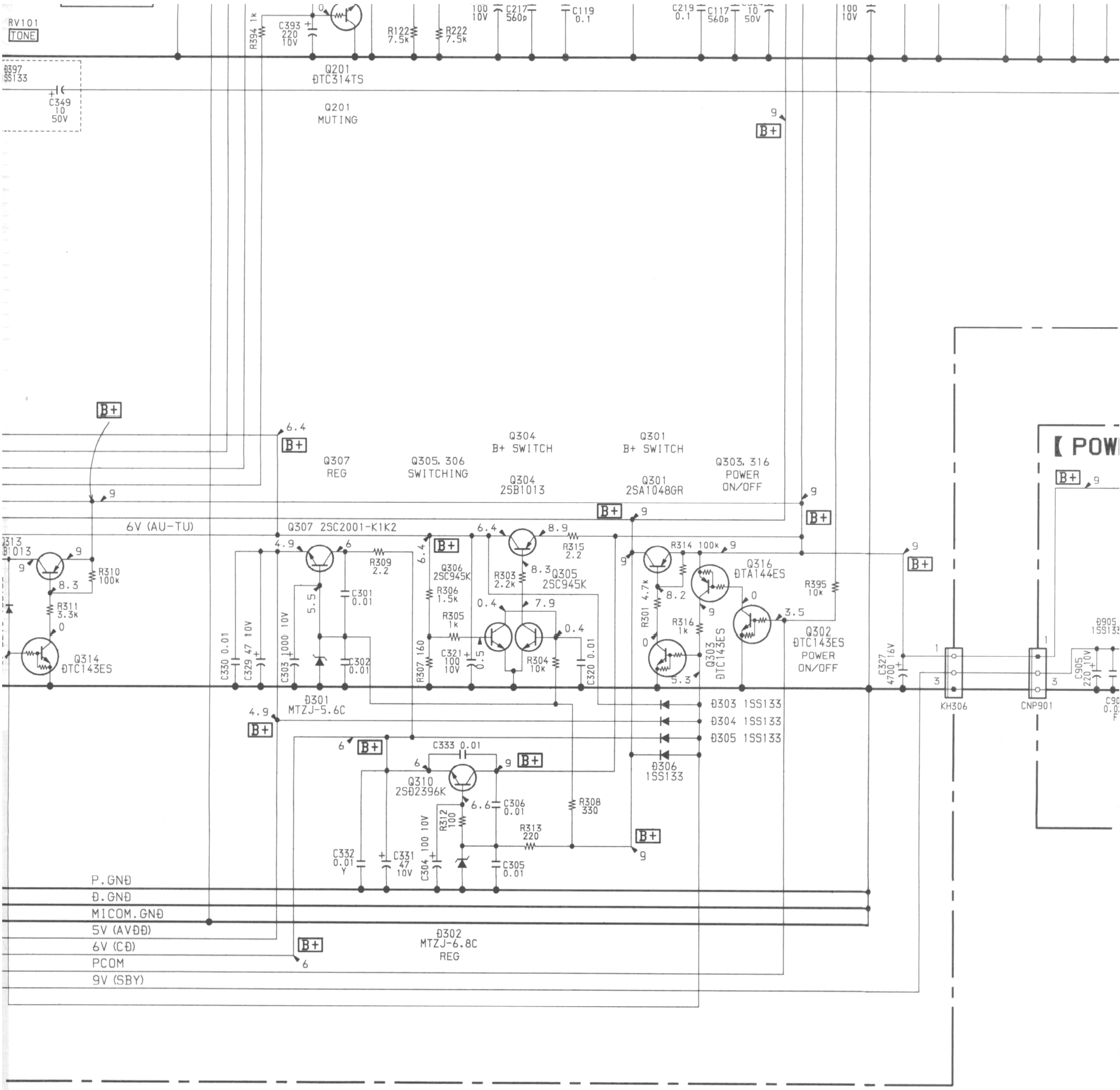


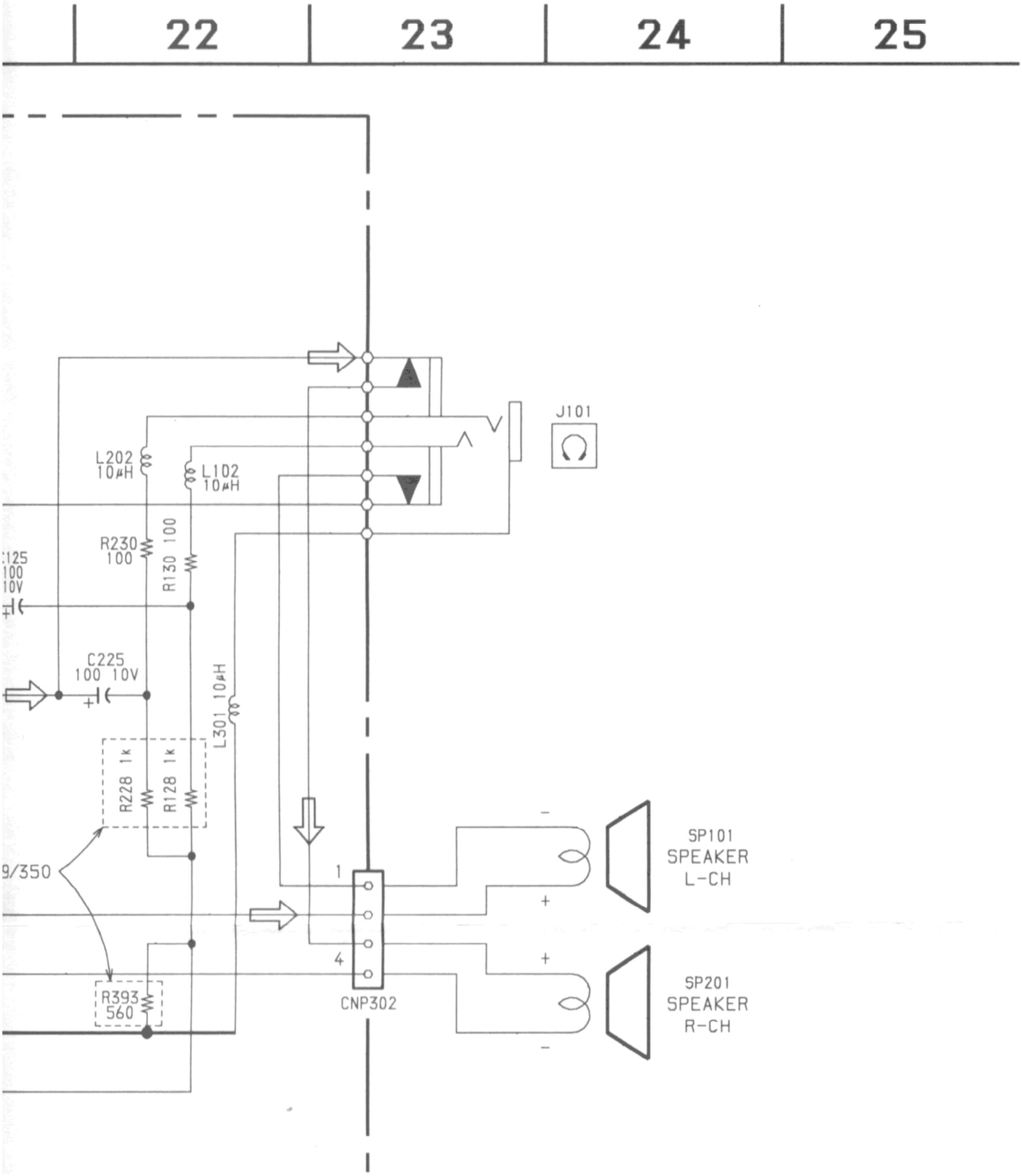
E
F
G
H
I
J
K
L
M
N
C325 220 10V
R399 1M
C399 47 10V
C208 100p
R206 1.8k
R106 1.8k
C108 100p
C317 0.01
R205 33k
R105 33k
Q373-375 REC/PLAY SWITCH
Q374 2SC2001-K1K2
C372 6800p
T371
Q371 2SC1815GR BIAS OSC
R379 1k
R371 33k
(0.5)
(3.3)
Q375 2SC2001-K1K2
R373 33
C373 47 10V
C374 1500p
R372 4.7
1.9 (1.7)
(1.7) 1.9
(-12.1)
2.5
0 (2.4)
1.9 (-2.8)
R378 3.3k
R377 3.3k
(-12.1) 2.5
5.2(-12.4)
5.3
R374 3.3k
D371 1SS133
5.3
B+
Q373 2SC2001-K1K2
Q376 2SA1048YGR
R380 100k
R376 3.3k
4.7 (5.2)
R375 10k
0 (5.2)
(0) 0.5
Q377 2SC2785HFE
0 (4.6)
Q372 DTC143ES
Q372, 376, 377 REC SWITCH
PCON
TC-PLAY
1
2

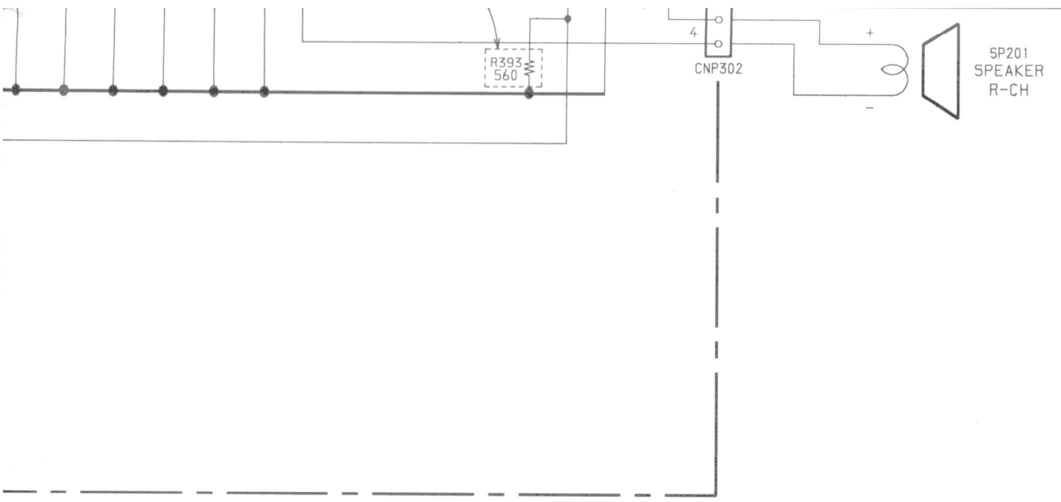
8
9
10
11
12
13
14
15
CFD-19/350
Q151, 251
MEGA BASS
CONTROL
IC302
ELECTRICAL
VOLUME
IC302
TDA7309
C251 0.022
C253 100 10V
R253 1.5k
Q251 2SC2001-K1K2
R257 1k
C255 1000p BX
R352 10k
C353 4.7 50V
R351 10k
C252 1 50V
R255 1k
R254 4.7k
C256 4.7 50V
C156 4.7 50V
R111 10k
C352 100 10V
R258 470k
R256 100k
R353 100
C112 0.018
IC304
NJM4558D
C254 0.15 (PE)
IC304
MEGA BASS
B+
6.1
RV101 (1/2) 20K
RV101 (2/2) 20K
C212 0.018
R158 470k
R152 6.8k
C152 1 50V
R154 4.7k
R153 1.5k
R211 10k
Q151 2SC2001-K1K2
R157 1k
R392 120k
R155 1k
C151 0.022
C153 100 10V
C154 0.15
R156 100k
C155 1000p BX
RV101
TONE
C114 0.15
C113 0.47 50V
C395 22 25V
C213 0.47 50V
C214 0.15
IN3L
LOUD
IN2L
IN1L
VDD
REF
IN1R
IN2R
LOUD
IN3R
RECL
LOUT
CSM
SDA
SCL
DGND
AGND
ADDR
ROUT
RECR
2.2
2.3
C115 4.7 50V
R121 2.2k
Q101 DTC314TS MUTING
C215 4.7 50V
R221 2.2k
R394 1k
C393 220 10V
Q201 DTC314TS
Q201 MUTING
R122 7.5k
R222 7.5k
C116 4.7 50V
C216 4.7 50V
C323 100 10V
VCC
3.3
R398 1M
D397 1SS133
D396 1SS133
C392 0.47 50V
C349 10 50V
C318 47 10V
CFD-19/350
5.3

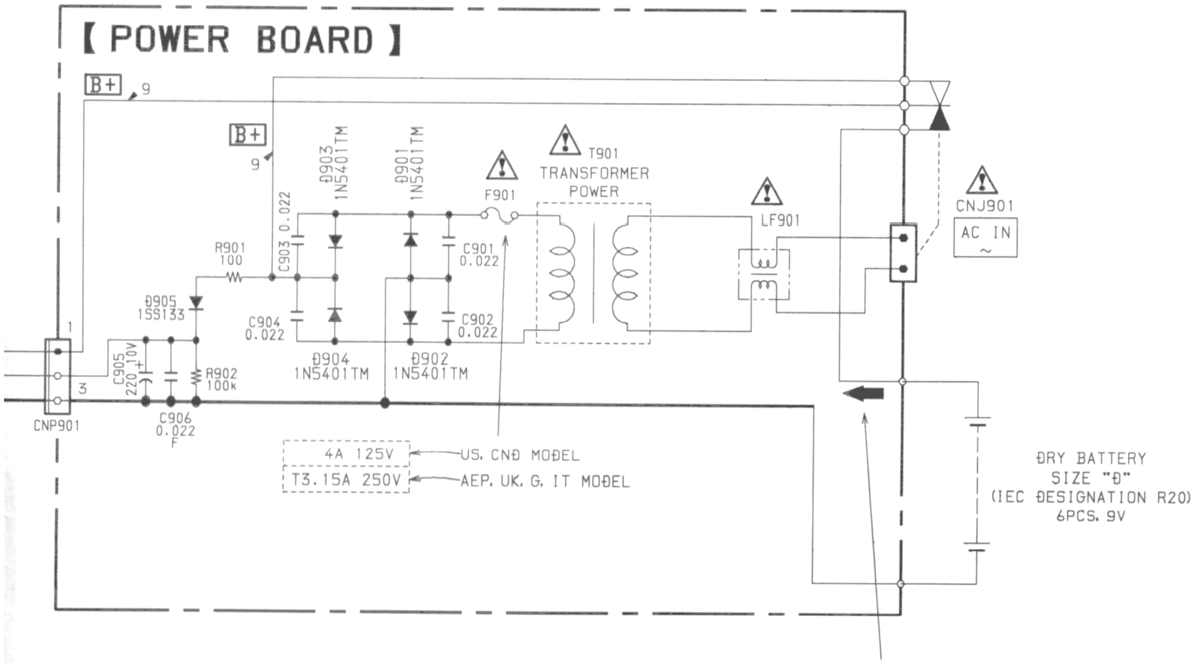

C208 100p
R206 1.8k
R106 1.8k
C108 100p
C210 100p
C110 100p
C319 1000
C328 0.01
R151 1.5k
C151 0.022
C153 100 10V
C154 0.15
R156 100k
C155 1000p BX
RV101
RV101 TONE
R205 33k
R105 33k
C209 0.47 50V
C109 0.47 50V
B+ 5.3
R398 1M
D397 1SS133
C392 0.47 50V
D396 1SS133
C349 10 50V
CFD-19/350
C318 47 10V
CFD-19/350
D317 1SS133
R207 15k
R107 15k
R391 22k
R324 56
C396 22 25V
C398 10 50V
C397 10 50V
Q371 2SC1815GR BIAS OSC
0 (3.3)
R371 33k 0 (0.5)
0
D399 1SS133
R397 3.3k
R396 3.3k
C373 47 10V
C374 1500p
R372 4.7
R361 100
5.3 B+
B+ 6.4
Q313 2SB1013
Q313 MOTOR SWITCH
9
9
R310 100k
8.3
D310 1SS133
R311 3.3k
0
Q314 DRIVE
5.3
Q314 DTC143ES
B+ 6.4
9 9
B+ B+
R326 10k
C391 0.1
B+ 4.9
B+ 6
P.G
D.G
MIC
5V
6V
PCO
9V
B+ 4.9
CNP303
8 5 1
CNP307
PCON
TC-PLAY
+B.9V
MICOM.GND
VCC.9V
P.GND
6V (CD)
D.GND
6V (TU)
9V (SBY)
A-MUTE
V-CLK
V-DATA
DBB
5V (CDH)
TAPE
REC
LCH (T)
5V (AVDD)
RCH (T)
AGND (T) AGND (CD)
RCH (CD)
LCH (CD)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
M601 REEL/CAPSTAN MOTOR
S603 (REC)
S602 (PLAY)
S601 (POWER)
A
MAIN BOARD CN707


15
16
17
18
19
20
21
22
IC303
POWER AMP
IC303
LA4620
VCC
L.IN
GND
R.IN
STAND.BY
VCC
R.OUT.-
GND
R.OUT.+
L.OUT.-
GND
L.OUT.+
C118 100 10V
C218 100 10V
C220 100 10V
R225 1k
C223 100 10V
C123 100 10V
R125 1k
C120 100 10V
C125 100 10V
L202 10µH
L102 10µH
R230 100
R130 100
C225 100 10V
L301 10µH
R228 1k
R128 1k
CFD-19/350
R393 560
CNP3
B+
C116 4.7 50V
C216 4.7 50V
D316 1SS133
R302 10k
R123 1k
R223 1k
C221 0.033
R224 2.2
C222 0.033
C122 0.033
C121 0.033
R226 2.2
R227 10k
R127 10k
R126 2.2
R124 2.2
C323 100 10V
C217 560p
C119 0.1
C219 0.1
C117 560p
C324 10 50V
C326 100 10V
R122 7.5k
R222 7.5k
TS
G
S


RV101
TONE
D397
1SS133
C349
10
50V
R394 1k
C393
220
10V
Q201
DTC314TS
Q201
MUTING
R122
7.5k
R222
7.5k
100
10V
C217
560p
C119
0.1
C219
0.1
C117
560p
10
50V
100
10V
B+
Q307
REG
Q305, 306
SWITCHING
Q304
B+ SWITCH
Q304
2SB1013
Q301
B+ SWITCH
Q301
2SA1048GR
Q303, 316
POWER
ON/OFF
6V (AU-TU)
Q307 2SC2001-K1K2
Q313
2SB1013
R310
100k
R311
3.3k
Q314
DTC143ES
C330 0.01
C329 47 10V
C303 1000 10V
C301
0.01
C302
0.01
D301
MTZJ-5.6C
R309
2.2
Q306
2SC945K
R306
1.5k
R305
1k
R307 160
C321
100
10V
R303
2.2k
Q305
2SC945K
R304
10k
C320 0.01
R315
2.2
R314 100k
Q316
DTA144ES
R301 4.7k
R316
1k
Q303
DTC143ES
Q302
DTC143ES
POWER
ON/OFF
R395
10k
C327
4700 16V
D303 1SS133
D304 1SS133
D305 1SS133
D306
1SS133
C333 0.01
Q310
2SD2396K
C306
0.01
R312
100
R308
330
R313
220
C332
0.01
Y
C331
47
10V
C304 100 10V
C305
0.01
D302
MTZJ-6.8C
REG
P.GND
D.GND
MICOM.GND
5V (AVDD)
6V (CD)
PCOM
9V (SBY)
KH306
CNP901
D905
1SS133
C905
220 10V
POW
6.4
4.9
6
5.5
8.9
8.3
0.4
7.9
0.5
8.2
3.5
5.3
6.6
9
0
1
3


22
23
24
25
J101
L202
10µH
L102
10µH
R230
100
R130 100
C125
100
10V
C225
100 10V
L301 10µH
R228 1k
R128 1k
9/350
R393
560
1
4
CNP302
SP101
SPEAKER
L-CH
SP201
SPEAKER
R-CH
+
−


R393
560
4
CNP302
+
−
SP201
SPEAKER
R-CH

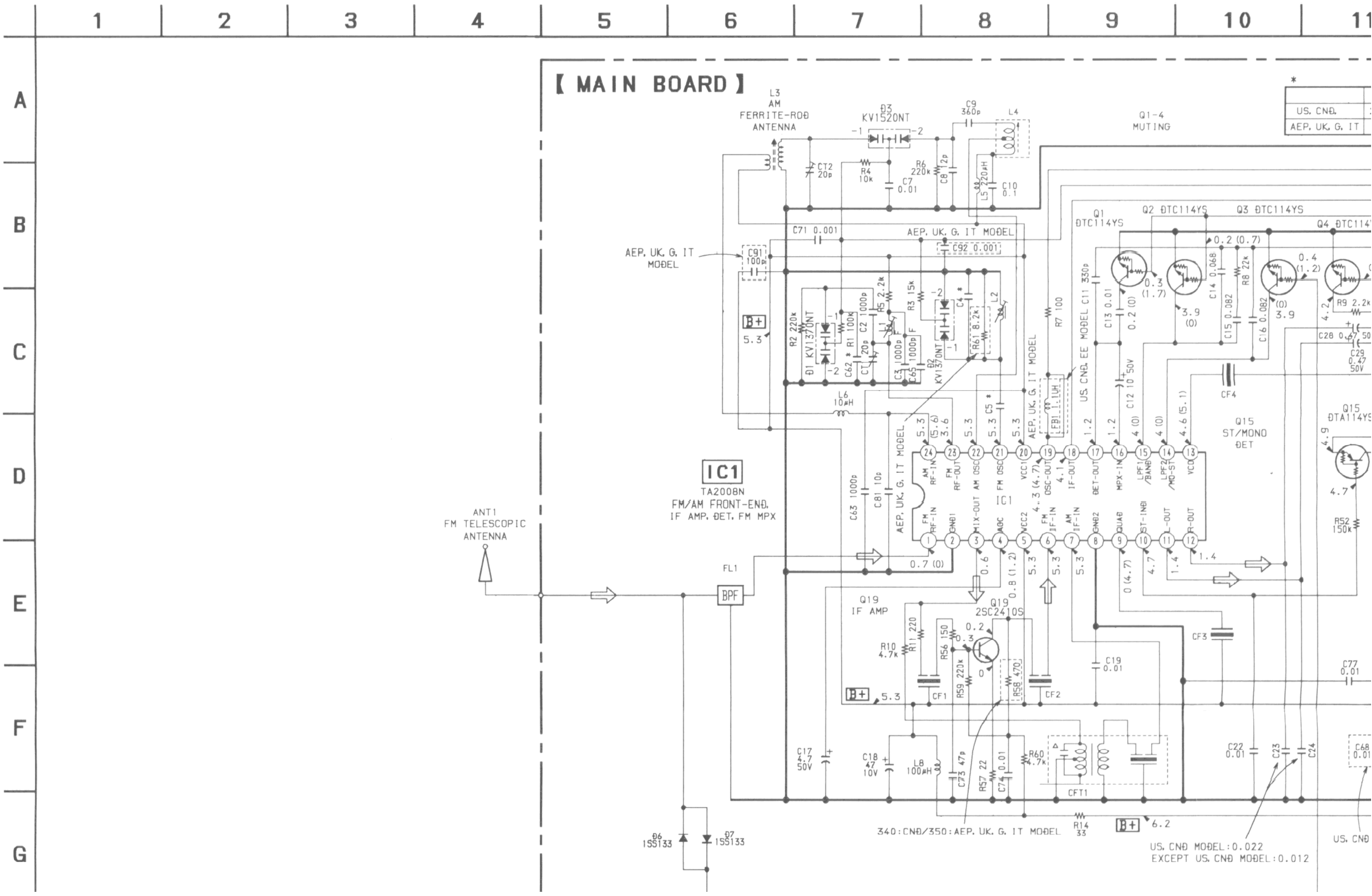

【POWER BOARD】
B+
9
B+
9
D903
1N5401TM
D901
1N5401TM
F901
T901
TRANSFORMER
POWER
LF901
CNJ901
AC IN
~
R901
100
C903 0.022
C901
0.022
D905
1SS133
C904
0.022
C902
0.022
1
3
CNP901
C905
220 10V
C906
0.022
F
R902
100k
D904
1N5401TM
D902
1N5401TM
4A 125V
T3.15A 250V
US, CND MODEL
AEP, UK, G, IT MODEL
DRY BATTERY
SIZE "D"
(IEC DESIGNATION R20)
6PCS, 9V

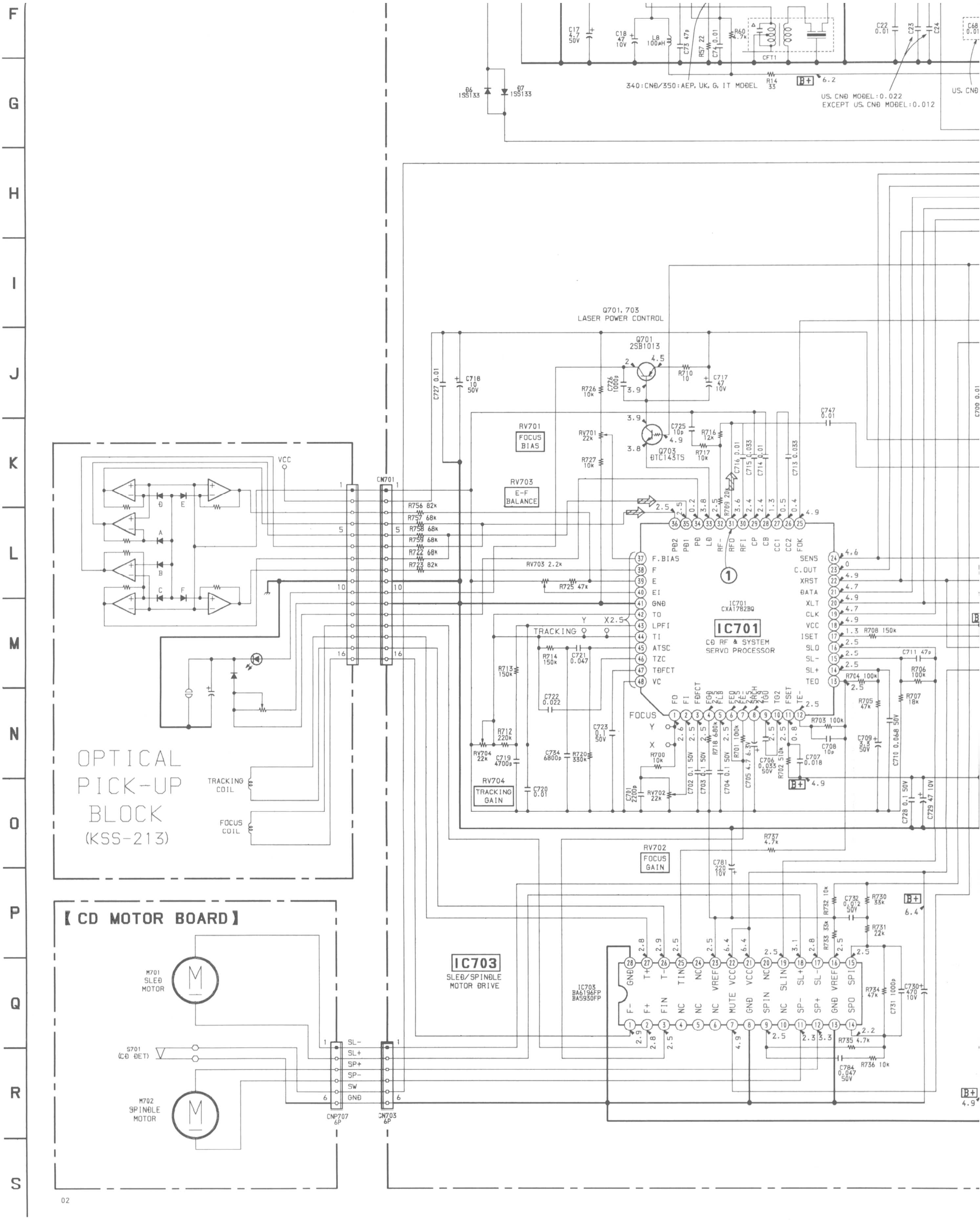
TOTAL CURRENT

| | CURRENT |
|---|---|
| FM | 183mA |
| AM | 171mA |
| TAPE PLAY | 242mA |
| TAPE REC | 260mA |
| CD PLAY | 370mA |

## 6-4. SCHEMATIC DIAGRAM (MAIN SECTION)

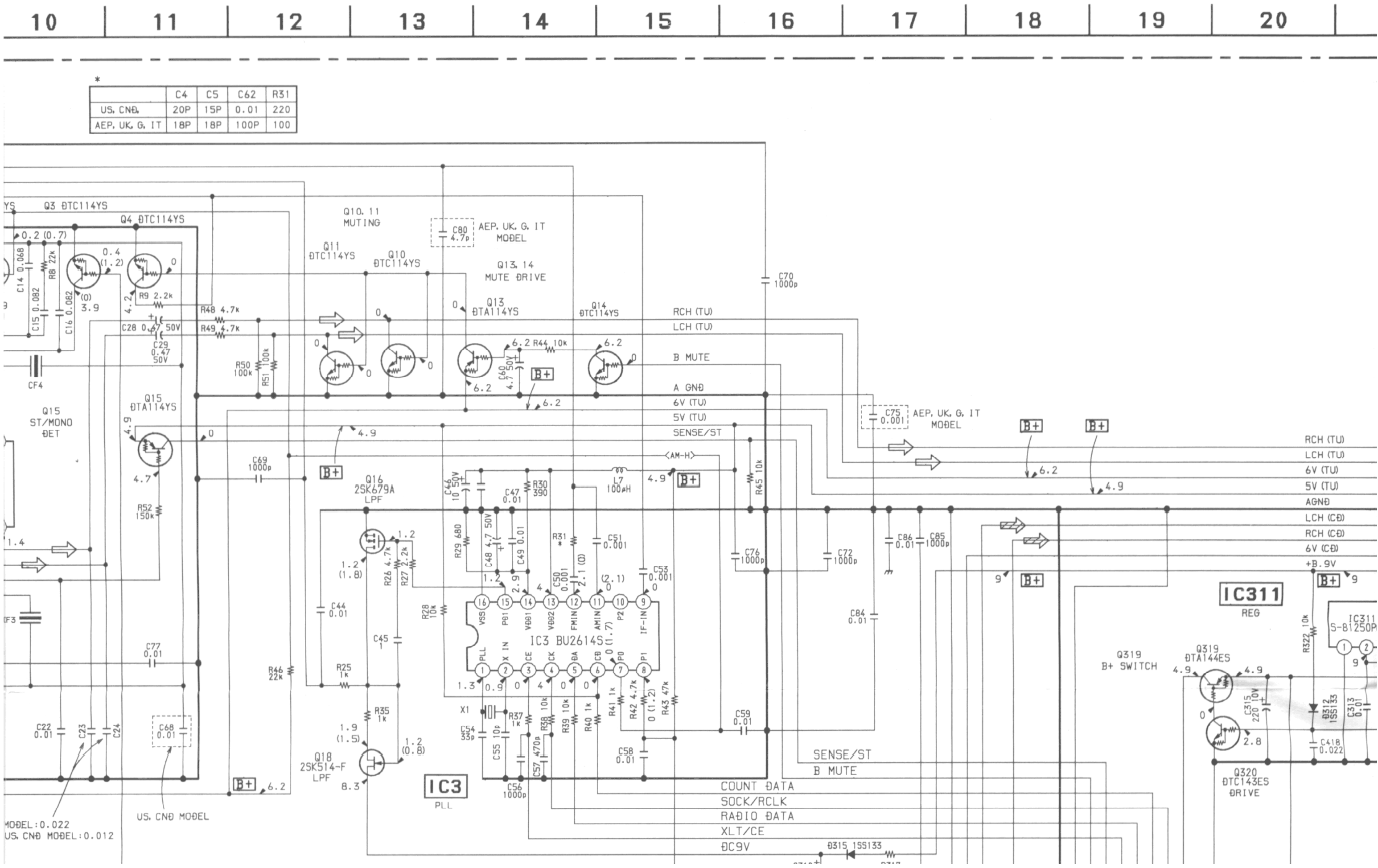
● Refer to page 29 for IC Block Diagrams.

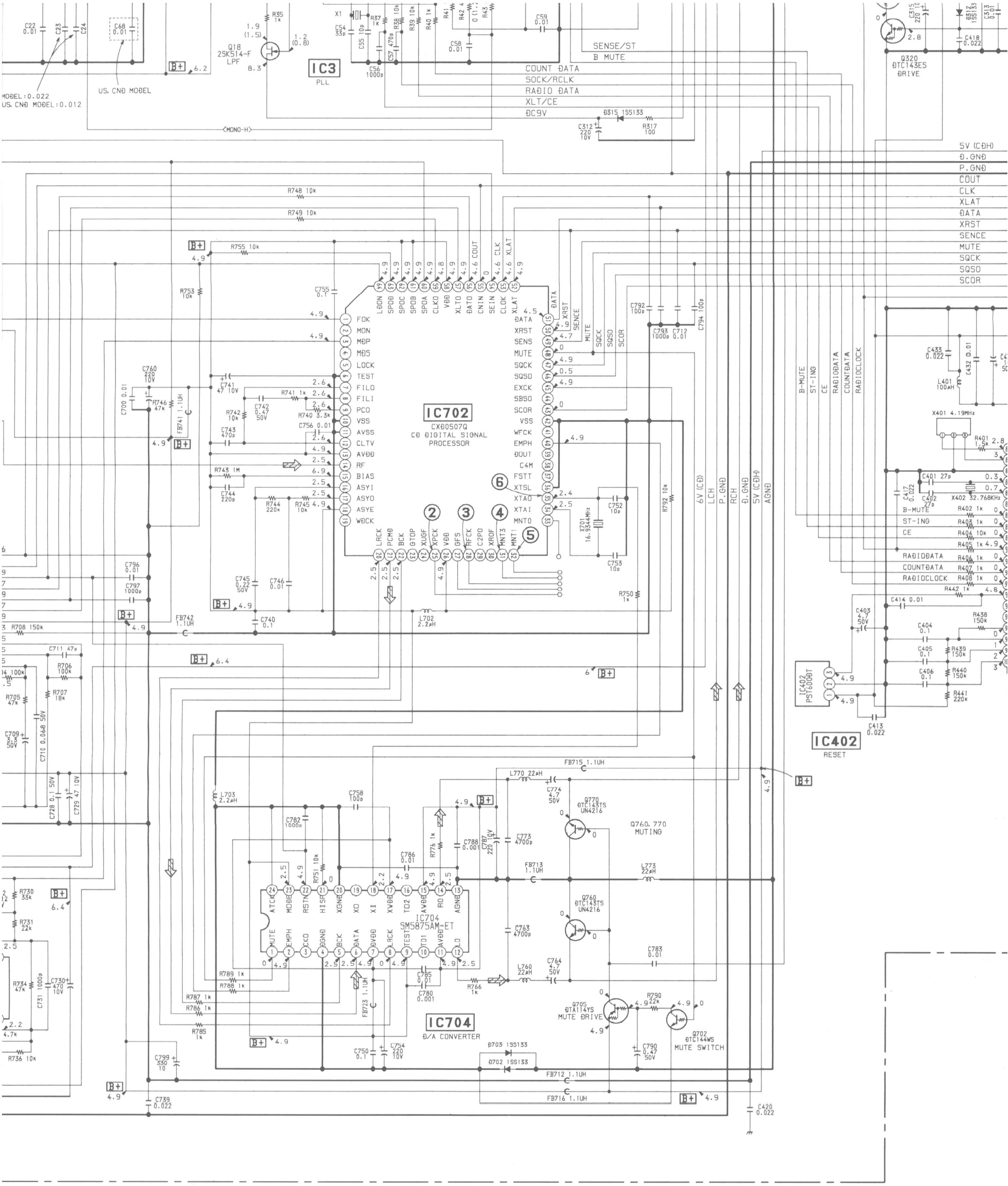

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
【MAIN BOARD】
L3 AM FERRITE-ROD ANTENNA
D3 KV1520NT
C9 360p
L4
Q1-4 MUTING
US, CND
AEP, UK, G, IT
CT2 20p
R4 10k
R6 220k
C7 0.01
C8 2p
L5 220μH
C10 0.1
Q1 DTC114YS
Q2 DTC114YS
Q3 DTC114YS
Q4 DTC114YS
C71 0.001
AEP, UK, G, IT MODEL
C92 0.001
AEP, UK, G, IT MODEL
C91 100p
B+ 5.3
R2 220k
D1 KV1370NT
C62 *
R1 100k
C2 1000p
C1 20p
R5 2.2k
C3 1000p
C65 1000p
R3 15k
D2 KV1370NT
C4 *
R61 8.2k
L2
R7 100
C11 330p
US, CND, EE MODEL
C13 0.01
C12 10 50V
C14 0.068
C15 0.082
C16 0.082
R8 22k
R9 2.2k
C28 0.47 50V
C29 0.47 50V
CF4
Q15 DTA114YS
Q15 ST/MONO DET
L6 10μH
C5 *
FB1 1μH
C63 1000p
C81 10p
IC1
IC1 TA2008N FM/AM FRONT-END, IF AMP, DET, FM MPX
AM RF-IN
FM RF-OUT
AM OSC
FM OSC
VCC1
FM OSC-OUT
IF-OUT
DET-OUT
MPX-IN
LPF1 /BAND
LPF2 /MO-ST
VCO
FM RF-IN
GND1
MIX-OUT
AGC
VCC2
FM IF-IN
AM IF-IN
GND2
QUAD
ST-IND
L-OUT
R-OUT
ANT1 FM TELESCOPIC ANTENNA
FL1 BPF
Q19 IF AMP
Q19 2SC2410S
R10 4.7k
R11 220
R56 150
R59 220k
R58 470
CF1
CF2
CF3
C19 0.01
C77 0.01
B+ 5.3
C17 4.7 50V
C18 47 10V
L8 100μH
C73 47p
R57 22
C74 0.01
R60 4.7k
CFT1
C22 0.01
C23
C24
C68 0.01
R52 150k
R14 33
B+ 6.2
340:CND/350:AEP, UK, G, IT MODEL
US, CND MODEL:0.022
EXCEPT US, CND MODEL:0.012
US, CND
D6 1SS133
D7 1SS133
5.3
(5.6)
3.6
4.3 (4.7)
4.1
1.2
4 (0)
4.6 (5.1)
0.7 (0)
0.6
0.8 (1.2)
0 (4.7)
4.7
1.4
0.2
0.3
0.3 (1.7)
3.9 (0)
0.2 (0.7)
0.4 (1.2)
(0) 3.9
4.2
4.9
4.7

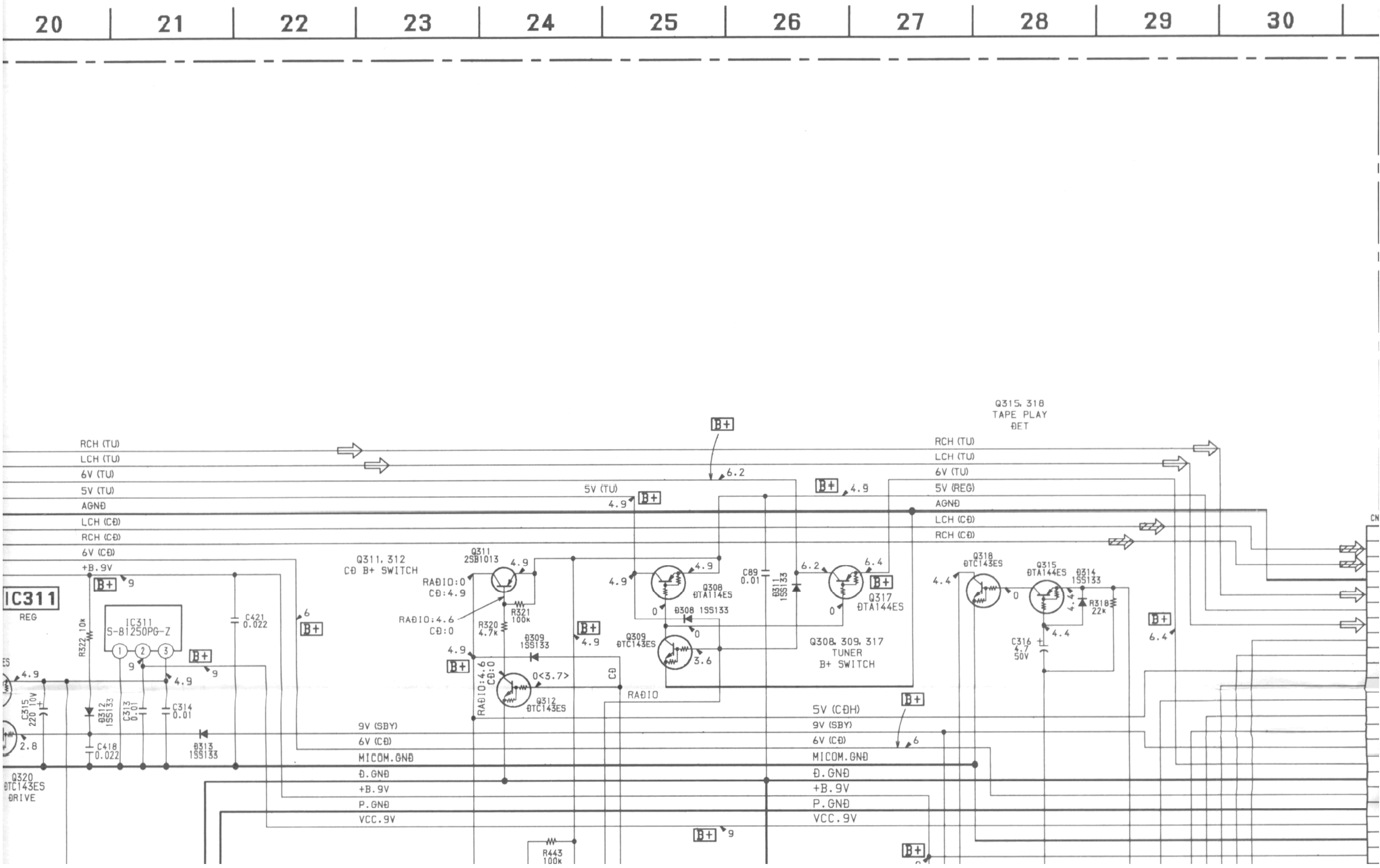

F
G
H
I
J
K
L
M
N
O
P
Q
R
S
340:CNƉ/350:AEP, UK, G, IT MODEL
US. CNƉ MOƉEL:0.022
EXCEPT US. CNƉ MOƉEL:0.012
Q701, 703
LASER POWER CONTROL
Q701
2SB1013
Q703
ƉTC143TS
RV701
FOCUS BIAS
RV703
E-F BALANCE
RV704
TRACKING GAIN
RV702
FOCUS GAIN
CN701
IC701
CXA1782BQ
IC701
CƉ RF & SYSTEM SERVO PROCESSOR
F.BIAS
F
E
EI
GNƉ
TO
LPFI
TI
ATSC
TZC
TƉFCT
VC
SENS
C.OUT
XRST
ƉATA
XLT
CLK
VCC
ISET
SLO
SL-
SL+
TEO
TRACKING
FOCUS
VCC
OPTICAL PICK-UP BLOCK (KSS-213)
TRACKING COIL
FOCUS COIL
IC703
SLEƉ/SPINƉLE MOTOR ƉRIVE
IC703
BA6196FP
BA5930FP
【CD MOTOR BOARD】
M701
SLEƉ MOTOR
S701
(CƉ ƉET)
M702
SPINƉLE MOTOR
SL-
SL+
SP+
SP-
SW
GNƉ
CNP707
6P
CN703
6P
B+
02

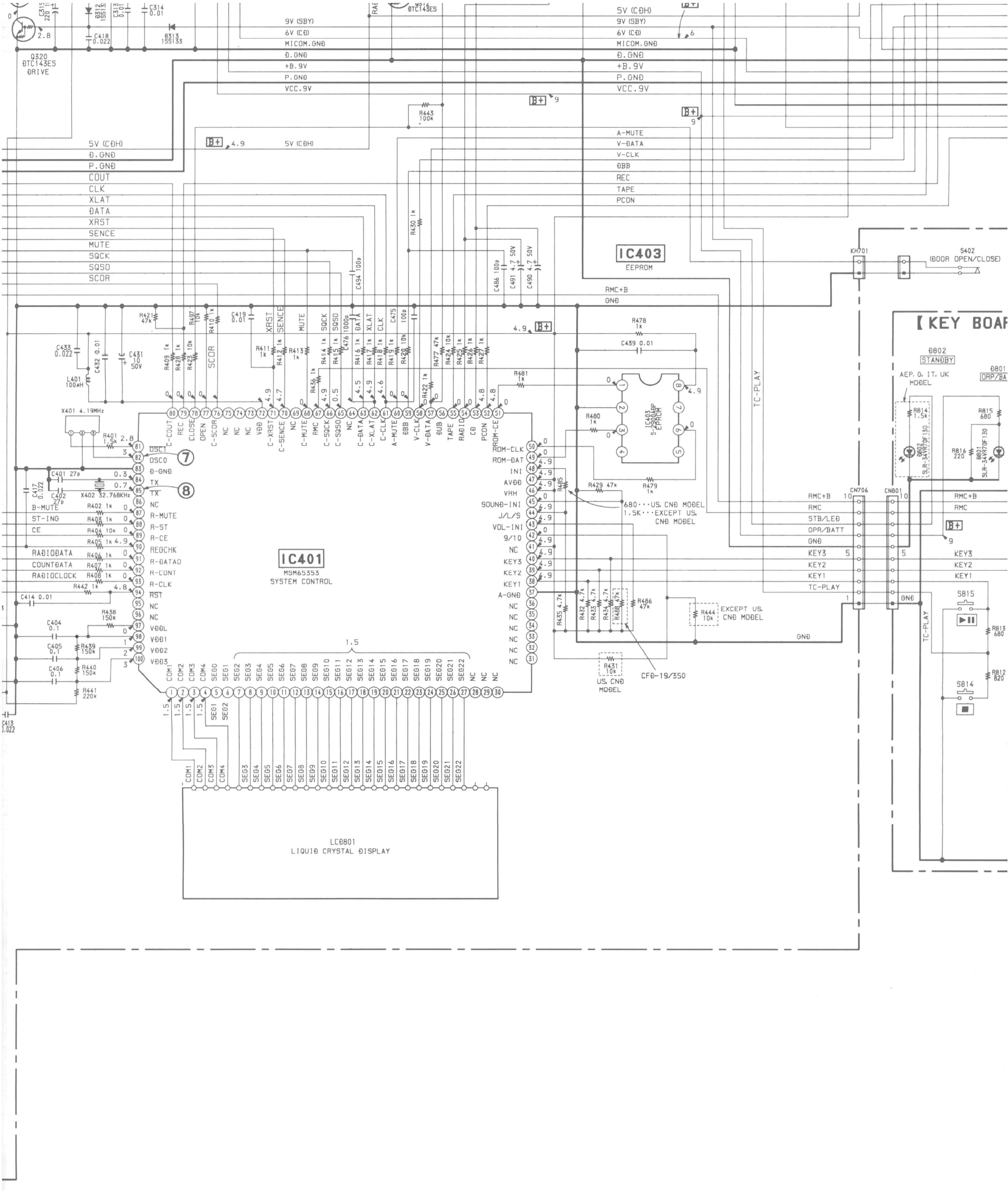
*

| | C4 | C5 | C62 | R31 |
|---|---|---|---|---|
| US, CND, | 20P | 15P | 0.01 | 220 |
| AEP, UK, G, IT | 18P | 18P | 100P | 100 |

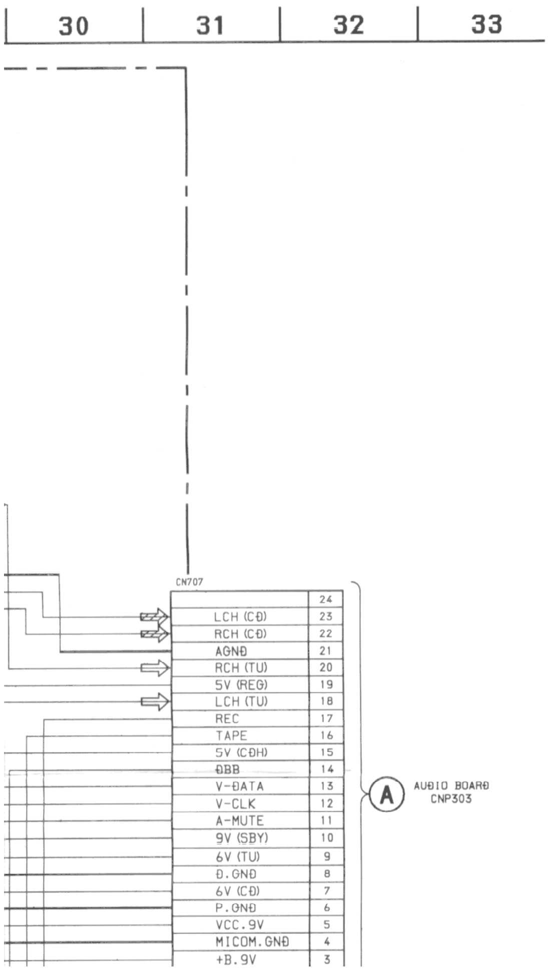

10
11
12
13
14
15
16
17
18
19
20
Q3 DTC114YS
Q4 DTC114YS
Q10, 11 MUTING
Q11 DTC114YS
Q10 DTC114YS
Q13, 14 MUTE DRIVE
Q13 DTA114YS
Q14 DTC114YS
AEP, UK, G, IT MODEL
C80 4.7p
C70 1000p
R8 22k
R9 2.2k
R48 4.7k
R49 4.7k
C28 0.47 50V
C29 0.47 50V
R50 100k
R51 10k
R44 10k
C60 4.7 50V
CF4
Q15 ST/MONO DET
Q15 DTA114YS
R52 150k
C69 1000p
RCH (TU)
LCH (TU)
B MUTE
A GND
6V (TU)
5V (TU)
SENSE/ST
AM-H
C75 0.001
AEP, UK, G, IT MODEL
B+
Q16 2SK679A LPF
C46 10 50V
C47 0.01
R30 390
L7 100µH
R45 10k
R29 680
C48 4.7 50V
C49 0.01
R31 *
C51 0.001
C50 0.001
C53 0.001
R26 4.7k
R27 2.2k
R28 10k
C44 0.01
C45 1
C76 1000p
C72 1000p
C86 0.01
C85 1000p
C84 0.01
IC3 BU2614S
VSS
PD1
VDD1
VDD2
FMIN
AMIN
P2
IF-IN
PLL
X IN
CE
CK
DA
CD
PO
P1
R46 22k
R25 1k
R35 1k
X1
C54 33p
C55 10p
R37 1k
C57 470p
R38 10k
R39 10k
R40 1k
R41 1k
R42 4.7k
R43 47k
C58 0.01
C59 0.01
C56 1000p
Q18 2SK514-F LPF
IC3 PLL
C77 0.01
C22 0.01
C23
C24
C68 0.01
C14 0.068
C15 0.082
C16 0.082
CF3
MODEL:0.022
US, CND MODEL:0.012
US, CND MODEL
SENSE/ST
B MUTE
COUNT DATA
SOCK/RCLK
RADIO DATA
XLT/CE
DC9V
D315 1SS133
RCH (TU)
LCH (TU)
6V (TU)
5V (TU)
AGND
LCH (CD)
RCH (CD)
6V (CD)
+B.9V
IC311 REG
IC311 S-81250P
R322 10k
Q319 B+ SWITCH
Q319 DTA144ES
C315 220 10V
D312 1SS133
C313 0.01
C418 0.022
Q320 DTC143ES DRIVE
0.2 (0.7)
0.4 (1.2)
(0) 3.9
4.2
4.9
4.7
6.2
2.9
2.1 (0)
(2.1)
1.2
1.2 (1.8)
1.3
0.9
1.9 (1.5)
1.2 (0.8)
8.3
0 (1.2)
1.4
2.8
9

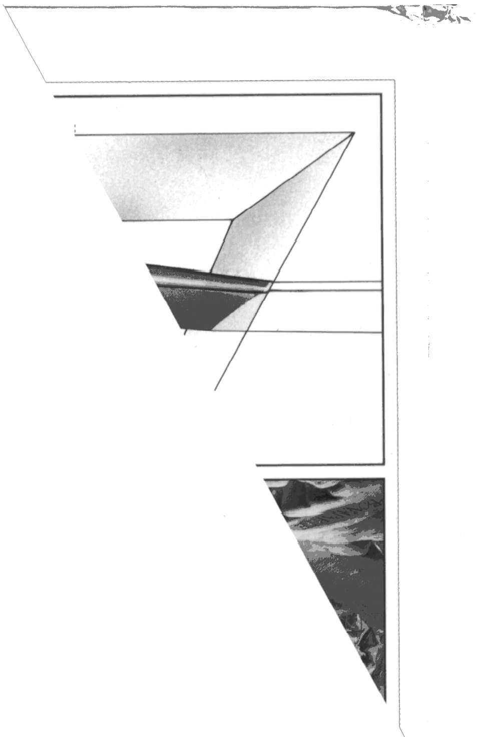

IC3
PLL
Q18
2SK514-F
LPF
US. CND MODEL
MODEL:0.022
US. CND MODEL:0.012
<MONO-H>
SENSE/ST
B MUTE
COUNT DATA
SOCK/RCLK
RADIO DATA
XLT/CE
DC9V
D315 1SS133
Q320
DTC143ES
DRIVE
5V (CDH)
D.GND
P.GND
COUT
CLK
XLAT
DATA
XRST
SENCE
MUTE
SQCK
SQSO
SCOR
IC702
CXD2507Q
CD DIGITAL SIGNAL PROCESSOR
FOK
MON
MDP
MDS
LOCK
TEST
FILO
FILI
PCO
VSS
AVSS
CLTV
AVDD
RF
BIAS
ASYI
ASYO
ASYE
WDCK
LDON
SPOD
SPOC
SPOB
SPOA
CLKO
VDD
XLTO
DATO
CNIN
SEIN
CLOK
XLAT
DATA
XRST
SENS
MUTE
SQCK
SQSO
EXCK
SBSO
SCOR
VSS
WFCK
EMPH
DOUT
C4M
FSTT
XTSL
XTAO
XTAI
MNT0
LRCK
PCMD
BCK
GTOP
XUGF
XPCK
VDD
GFS
RFCK
C2PO
XROF
MNT3
MNT1
②
③
④
⑤
⑥
X701 16.9344MHz
L702 2.2µH
6V (CD)
LCH
P.GND
RCH
D.GND
5V (CDH)
AGND
B-MUTE
ST-ING
CE
RADIODATA
COUNTDATA
RADIOCLOCK
X401 4.19MHz
X402 32.768KHz
IC402
PST600HT
RESET
L703 2.2µH
IC704
SM5875AM-ET
D/A CONVERTER
ATCK
MODE
RSTN
HISF
XGND
XO
XI
XVDD
TO2
AVDD
RO
AGND
MUTE
EMPH
CKO
DGND
BCK
DATA
DVDD
LRCK
TEST
TO1
AVDD
LO
L770 22µH
Q770
DTC143TS
UN4216
Q760, 770
MUTING
Q760
DTC143TS
UN4216
L773 22µH
L760 22µH
Q705
DTA114YS
MUTE DRIVE
Q702
DTC144WS
MUTE SWITCH
D703 1SS133
D702 1SS133
FB715 1.1UH
FB713 1.1UH
FB712 1.1UH
FB716 1.1UH
FB742 1.1UH
FB741 1.1UH
FB723 1.1UH
B+


20
21
22
23
24
25
26
27
28
29
30
RCH (TU)
LCH (TU)
6V (TU)
5V (TU)
AGND
LCH (CD)
RCH (CD)
6V (CD)
+B.9V
IC311
REG
IC311
S-81250PG-Z
R322 10k
C315 220 10V
4.9
2.8
Q320
DTC143ES
DRIVE
D312 1SS133
C418 0.022
C313 0.01
C314 0.01
D313 1SS133
C421 0.022
B+
9
4.9
6
Q311, 312
CD B+ SWITCH
Q311
2SB1013
RADIO:0
CD:4.9
RADIO:4.6
CD:0
R320 4.7k
R321 100k
D309 1SS133
Q312
DTC143ES
0<3.7>
RADIO:4.6 CD:0
CD
RADIO
9V (SBY)
6V (CD)
MICOM.GND
D.GND
+B.9V
P.GND
VCC.9V
R443 100k
5V (TU)
6.2
Q308
DTA114ES
D308 1SS133
Q309
DTC143ES
3.6
C89 0.01
D311 1SS133
Q317
DTA144ES
6.4
Q308, 309, 317
TUNER
B+ SWITCH
Q315, 318
TAPE PLAY
DET
5V (REG)
5V (CDH)
Q318
DTC143ES
4.4
Q315
DTA144ES
D314 1SS133
R318 22k
C316 4.7 50V
6.4
CN

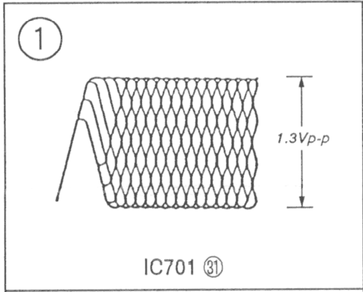


Q320
DTC143ES
DRIVE
D313
1SS133
C418 0.022
C314 0.01
9V (SBY)
6V (CD)
MICOM.GND
D.GND
+B.9V
P.GND
VCC.9V
5V (CDH)
R443 100k
A-MUTE
V-DATA
V-CLK
DBB
REC
TAPE
PCON
D.GND
P.GND
COUT
CLK
XLAT
DATA
XRST
SENCE
MUTE
SQCK
SQSO
SCOR
IC403
EEPROM
RMC+B
GND
KH701
S402
(DOOR OPEN/CLOSE)
KEY BOARD
D802
STANDBY
AEP, G, IT, UK MODEL
D801
ORP/BATT
R814 1.5k
R815 680
R816 220
SLR-34VR70F130
X401 4.19MHz
R401 1.5k
OSCI
OSCO
D-GND
TX
X402 32.768KHz
C401 27p
C402 27p
C417 0.022
B-MUTE
ST-ING
CE
RADIODATA
COUNTDATA
RADIOCLOCK
R-MUTE
R-ST
R-CE
REGCHK
R-DATAO
R-CONT
R-CLK
RST
VDDL
VDD1
VDD2
VDD3
C414 0.01
C404 0.1
C405 0.1
C406 0.1
R438 150k
R439 150k
R440 150k
R441 220k
C413 0.022
L401 100μH
C433 0.022
C432 0.01
C431 10 50V
IC401
MSM65353
SYSTEM CONTROL
ROM-CLK
ROM-DAT
INI
AVDD
VRH
SOUND-INI
J/L/S
VOL-INI
9/10
NC
KEY3
KEY2
KEY1
A-GND
C-COUT
REC
CLOSE
OPEN
C-SCOR
VDD
C-XRST
C-SENCE
C-MUTE
RMC
C-SQCK
C-SQSO
C-DATA
C-XLAT
C-CLK
A-MUTE
DBB
V-CLK
V-DATA
DUB
TAPE
RADIO
CD
PCON
ROM-CE
IC403
S-2900ADP
EEPROM
R478 1k
C439 0.01
R481 1k
R480 1k
R479 1k
R429 47k
680···US, CND MODEL
1.5K···EXCEPT US, CND MODEL
R486 47k
R444 10k
EXCEPT US, CND MODEL
R431 10k
US, CND MODEL
CF0-19/350
TC-PLAY
CN706
CN801
RMC+B
RMC
STB/LED
OPR/BATT
GND
KEY3
KEY2
KEY1
TC-PLAY
S815
S814
R813 680
R812 820
COM1
COM2
COM3
COM4
SEG0
SEG1
SEG2
SEG22
LCD801
LIQUID CRYSTAL DISPLAY
⑦
⑧

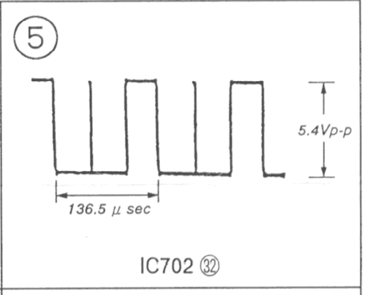

30
31
32
33
CN707
24
LCH (CD) 23
RCH (CD) 22
AGND 21
RCH (TU) 20
5V (REG) 19
LCH (TU) 18
REC 17
TAPE 16
5V (CDH) 15
DBB 14
V-DATA 13
V-CLK 12
A-MUTE 11
9V (SBY) 10
6V (TU) 9
D.GND 8
6V (CD) 7
P.GND 6
VCC.9V 5
MICOM.GND 4
+B.9V 3
A
AUDIO BOARD
CNP303



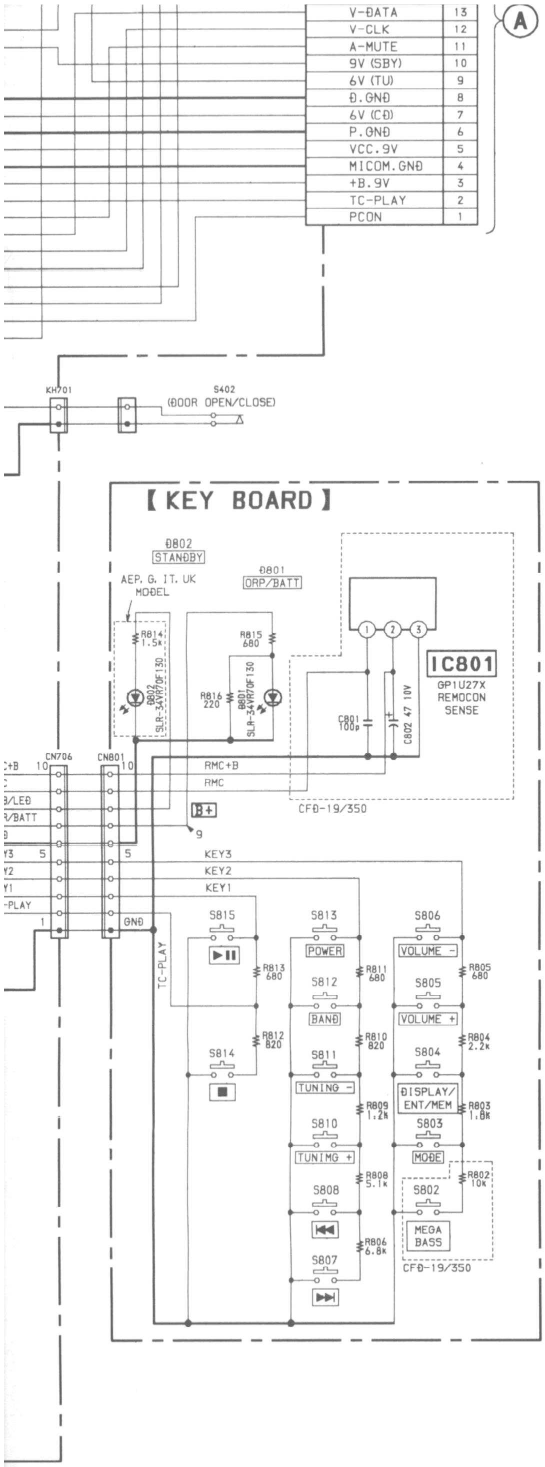
## • WAVEFORMS

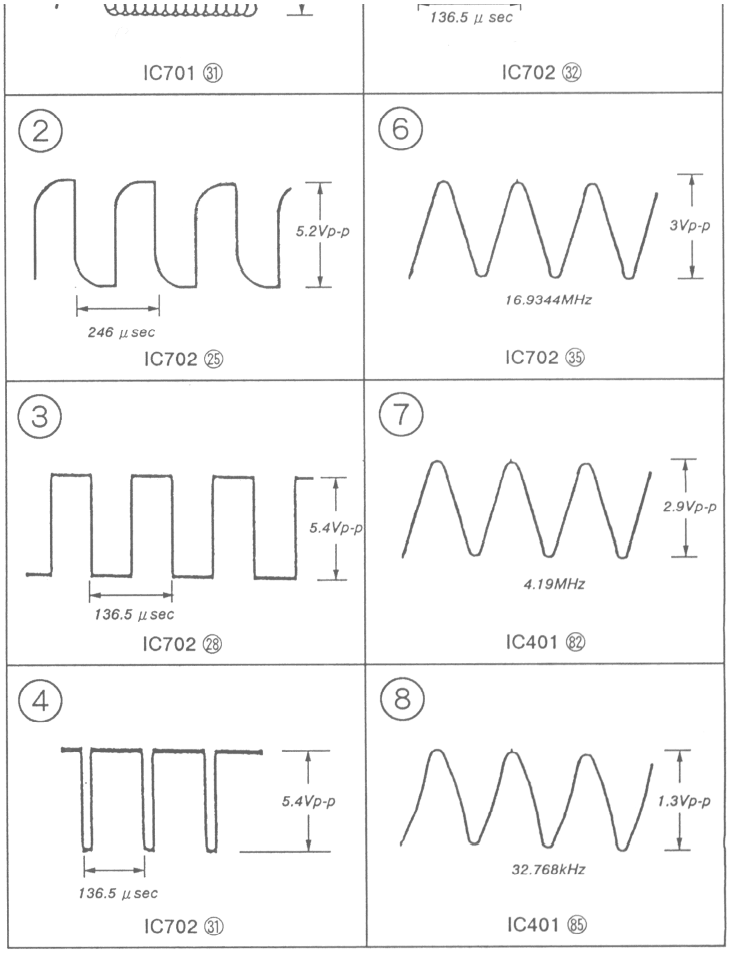


IC701 ㉛



IC702 ㉜


V-DATA 13
V-CLK 12
A-MUTE 11
9V (SBY) 10
6V (TU) 9
D.GND 8
6V (CD) 7
P.GND 6
VCC.9V 5
MICOM.GND 4
+B.9V 3
TC-PLAY 2
PCON 1
A
AUDIO BOARD
CNP303
KH701
S402
(DOOR OPEN/CLOSE)
【KEY BOARD】
D802
STANDBY
AEP, G, IT, UK MODEL
D801
ORP/BATT
R814 1.5k
R815 680
R816 220
D802 SLR-34VR7DF130
D801 SLR-34VR7DF130
IC801
GP1U27X
REMOCON
SENSE
C801 100p
C802 47 10V
CFD-19/350
CN706
CN801
RMC+B
RMC
B+
KEY3
KEY2
KEY1
GND
TC-PLAY
S815
▶II
S813
POWER
S806
VOLUME −
R813 680
R811 680
R805 680
S812
BAND
S805
VOLUME +
R812 820
R810 820
R804 2.2k
S814
■
S811
TUNING −
S804
DISPLAY/ENT/MEM
R809 1.2k
R803 1.8k
S810
TUNING +
S803
MODE
R808 5.1k
R802 10k
S808
⏮
S802
MEGA BASS
R806 6.8k
S807
⏭
CFD-19/350



**Note :**

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.

| Note : | Note : |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

- B+ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal ( detuned ) conditions.

  no mark : FM (RADIO SECTION)

  ( ) : AM (RADIO SECTION)

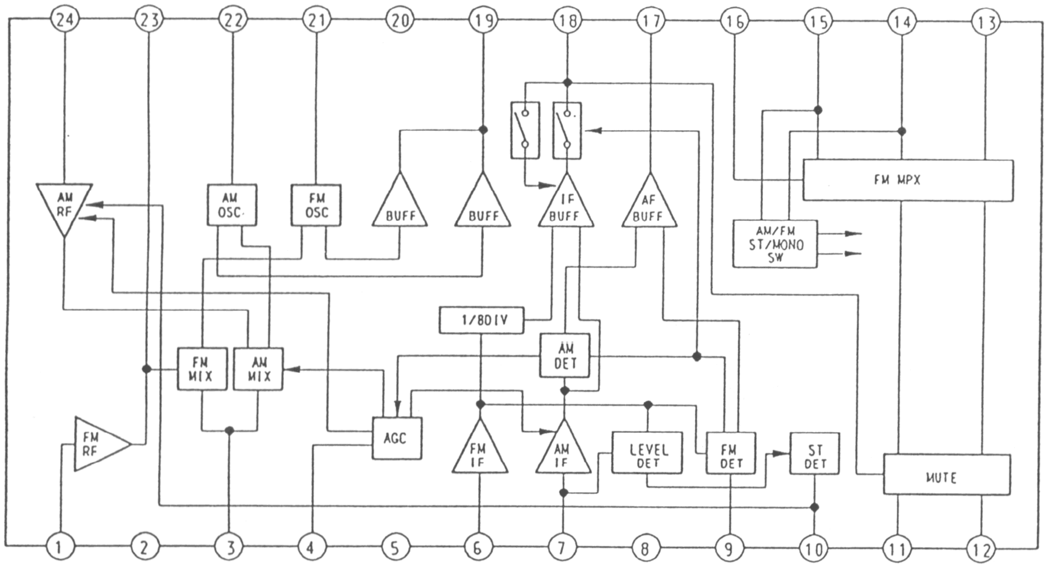
  no mark : CD PLAY (CD SECTION)
- Voltages are taken with a VOM ( Input impedance 10M Ω ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

  ⇨ : FM ⇨ : CD
- Abbreviations

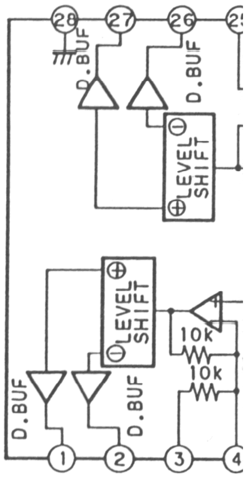
  CND : Canadian
  G : German
  IT : Italian

## 6-5. IC BLOCK DIAGRAMS

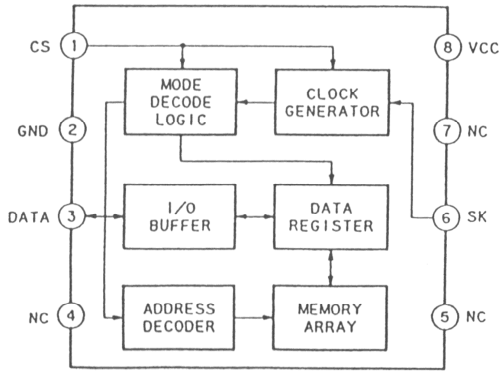
### IC1 TA2008N


24
23
22
21
20
19
18
17
16
15
14
13
AM RF
AM OSC
FM OSC
BUFF
BUFF
IF BUFF
AF BUFF
FM MPX
AM/FM ST/MONO SW
1/8DIV
AM DET
FM MIX
AM MIX
AGC
FM RF
FM IF
AM IF
LEVEL DET
FM DET
ST DET
MUTE
1
2
3
4
5
6
7
8
9
10
11
12

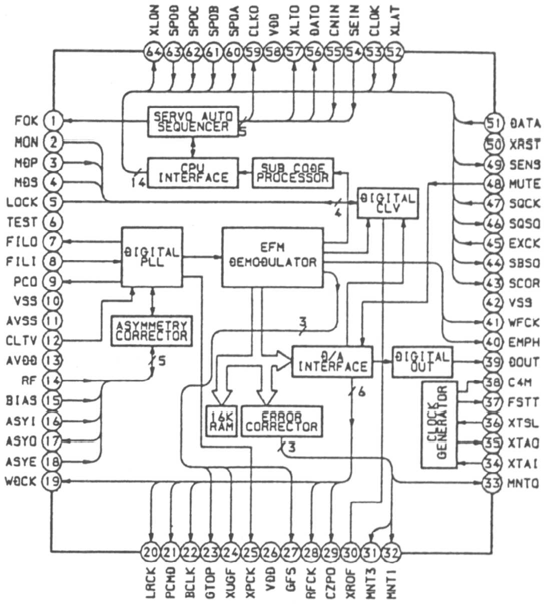
### IC703 BA6196FP


28
27
26
D.BUF
D.BUF
LEVEL SHIFT
LEVEL SHIFT
10k
10k
D.BUF
D.BUF
1
2
3
4

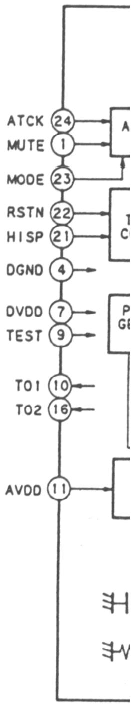
### IC403 S-2900ADP


CS 1
GND 2
DATA 3
NC 4
8 VCC
7 NC
6 SK
5 NC
MODE DECODE LOGIC
CLOCK GENERATOR
I/O BUFFER
DATA REGISTER
ADDRESS DECODER
MEMORY ARRAY

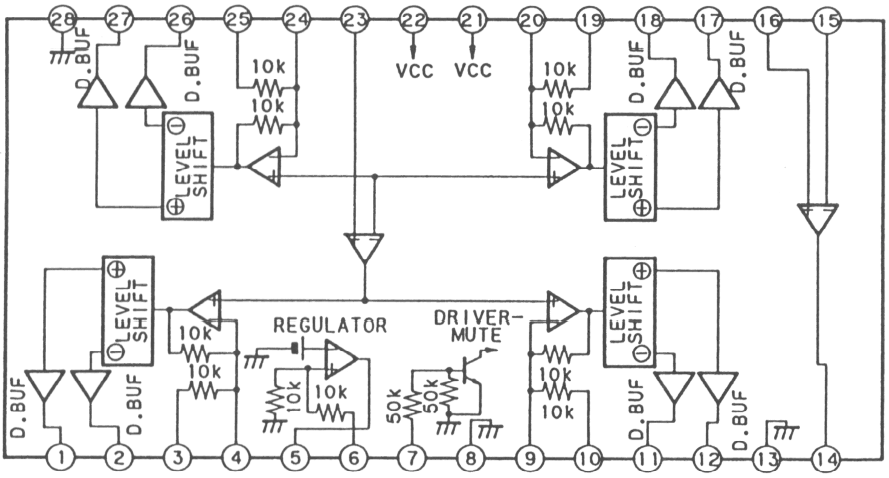
### IC702 CXD2507AQ


XLON 64
SPOD 63
SPOC 62
SPOB 61
SPOA 60
CLKO 59
VDD 58
XLTO 57
DATO 56
CNIN 55
SEIN 54
CLOK 53
XLAT 52
FOK 1
MON 2
MDP 3
MDS 4
LOCK 5
TEST 6
FILO 7
FILI 8
PCO 9
VSS 10
AVSS 11
CLTV 12
AVDD 13
RF 14
BIAS 15
ASYI 16
ASYO 17
ASYE 18
WDCK 19
51 DATA
50 XRST
49 SENS
48 MUTE
47 SQCK
46 SQSO
45 EXCK
44 SBSO
43 SCOR
42 VSS
41 WFCK
40 EMPH
39 DOUT
38 C4M
37 FSTT
36 XTSL
35 XTAO
34 XTAI
33 MNTO
20 LRCK
21 PCMD
22 BCLK
23 GTOP
24 XUGF
25 XPCK
26 VDD
27 GFS
28 RFCK
29 C2PO
30 XROF
31 MNT3
32 MNT1
SERVO AUTO SEQUENCER
CPU INTERFACE
SUB CODE PROCESSOR
DIGITAL CLV
DIGITAL PLL
EFM DEMODULATOR
ASYMMETRY CORRECTOR
D/A INTERFACE
DIGITAL OUT
16K RAM
ERROR CORRECTOR
CLOCK GENERATOR
14
5
4
3
5
6
3

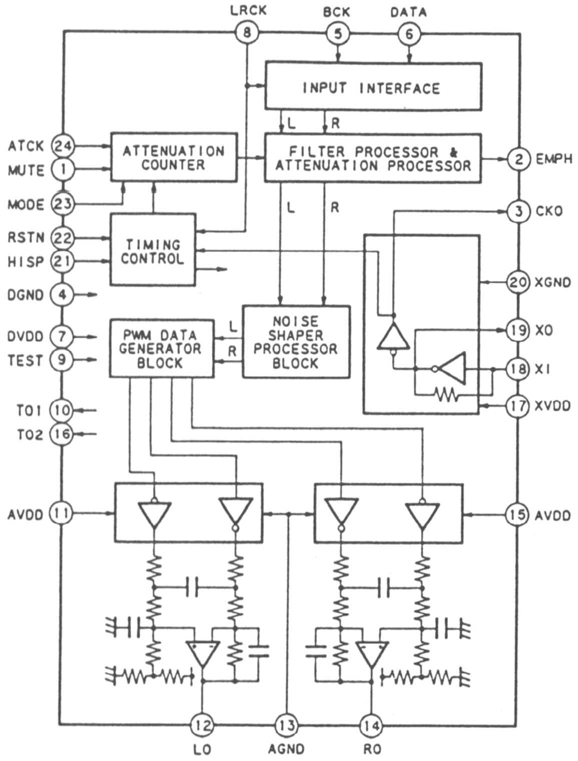
### IC704 S


ATCK 24
MUTE 1
MODE 23
RSTN 22
HISP 21
DGND 4
DVDD 7
TEST 9
TO1 10
TO2 16
AVDD 11

## IC703 BA6196FP


28
27
26
25
24
23
22
21
20
19
18
17
16
15
D.BUF
D.BUF
10k
10k
VCC
VCC
10k
10k
D.BUF
D.BUF
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
10k
10k
REGULATOR
DRIVER-MUTE
10k
10k
10k
10k
50k
50k
D.BUF
D.BUF
D.BUF
D.BUF
1
2
3
4
5
6
7
8
9
10
11
12
13
14

## IC704 SM5875AM-ET


LRCK
8
BCK
5
DATA
6
INPUT INTERFACE
L
R
ATTENUATION COUNTER
FILTER PROCESSOR & ATTENUATION PROCESSOR
ATCK 24
MUTE 1
MODE 23
2 EMPH
L
R
3 CKO
RSTN 22
HISP 21
TIMING CONTROL
20 XGND
DGND 4
DVDD 7
TEST 9
PWM DATA GENERATOR BLOCK
L
R
NOISE SHAPER PROCESSOR BLOCK
19 XO
18 XI
17 XVDD
TO1 10
TO2 16
AVDD 11
15 AVDD
12
LO
13
AGND
14
RO

DATA
XRST
SENS
MUTE
SQCK
SQSO
EXCK
SBSO
SCOR
VSS
WFCK
EMPH
DOUT
C4M
FSTT
XTSL
XTAO
XTAI
MNTO

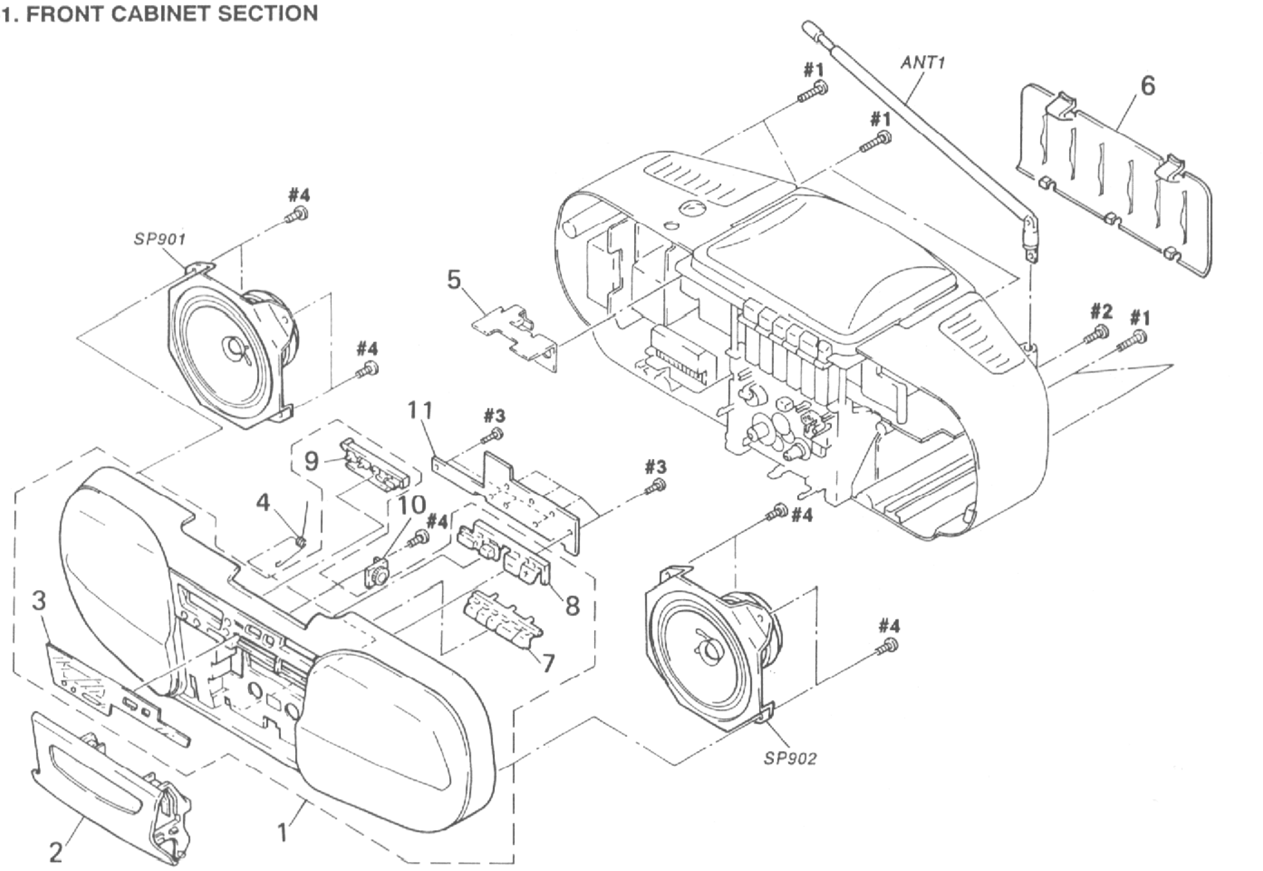
# SECTION 7
# EXPLODED VIEWS

NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)....(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware ( # mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian G : German
  IT : Italian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

## 7-1. FRONT CABINET SECTION



| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-3370-161-1 | CABINET (FRONT) SUB ASSY (BLUE) (CFD-340:AEP) | |
| 1 | X-3370-780-1 | CABINET (FRONT) SUB ASSY (BLACK) (CFD-340:AEP, IT, UK) | |
| 1 | X-3370-781-1 | CABINET (FRONT) SUB ASSY (BLACK) (CFD-340:CND) | |
| 1 | X-3370-782-1 | CABINET (FRONT) SUB ASSY (BLACK) (CFD-350:AEP, G, IT, UK) | |
| 1 | X-3370-783-1 | CABINET (FRONT) SUB ASSY (BLACK) (CFD-19/350:CND) | |
| 2 | X-3370-784-1 | HOLDER ASSY, CASSETTE (BLACK) (CFD-340) | |
| 2 | X-3370-785-1 | HOLDER ASSY, CASSETTE (BLACK) (CFD-19/350) | |
| 2 | X-3371-025-1 | HOLDER ASSY, CASSETTE (BLUE) (CFD-340:AEP) | |
| 3 | 3-923-425-01 | WINDOW (CONTROL) (CFD-340:AEP, IT, UK) | |
| 3 | 3-923-425-11 | WINDOW (CONTROL) (CFD-350:AEP, G, IT, UK) | |
| 3 | 3-923-425-21 | WINDOW (CONTROL) (CFD-340:CND) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 3 | 3-923-425-31 | WINDOW (CONTROL) (CFD-19/350:CND) | |
| 4 | 3-923-434-01 | SPRING (CASSETTE) | |
| 5 | 3-923-430-01 | HOLDER (HP) | |
| 6 | 3-368-522-01 | LID, BATTERY CASE (BLACK) | |
| 6 | 3-376-437-41 | LID, BATTERY CASE (BLUE) (CFD-340:AEP) | |
| 7 | 3-923-424-01 | BUTTON (C) (BLACK) | |
| 7 | 3-923-424-11 | BUTTON (C) (BLUE) (CFD-340:AEP) | |
| 8 | 3-923-423-01 | BUTTON (B) (BLACK) | |
| 8 | 3-923-423-11 | BUTTON (B) (BLUE) (CFD-340:AEP) | |
| 9 | 3-923-422-01 | BUTTON (A) (BLACK) (CFD-340) | |
| 9 | 3-923-422-11 | BUTTON (A) (BLACK) (CFD-19/350) | |
| 9 | 3-923-422-21 | BUTTON (A) (BLUE) (CFD-340:AEP) | |
| 10 | 3-351-377-11 | DAMPER | |
| * 11 | 1-656-876-11 | KEYBOARD BOARD | |
| ANT1 | 1-501-378-11 | ANTENNA, TELESCOPIC | |
| SP901 | 1-504-816-11 | SPEAKER (10CM) (L-CH) | |
| SP902 | 1-504-816-11 | SPEAKER (10CM) (L-CH) | |

## 7-2. REAR

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F901
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| Ref. No. | P |
|---|---|
| 51 | 3- |
| 51 | 3- |
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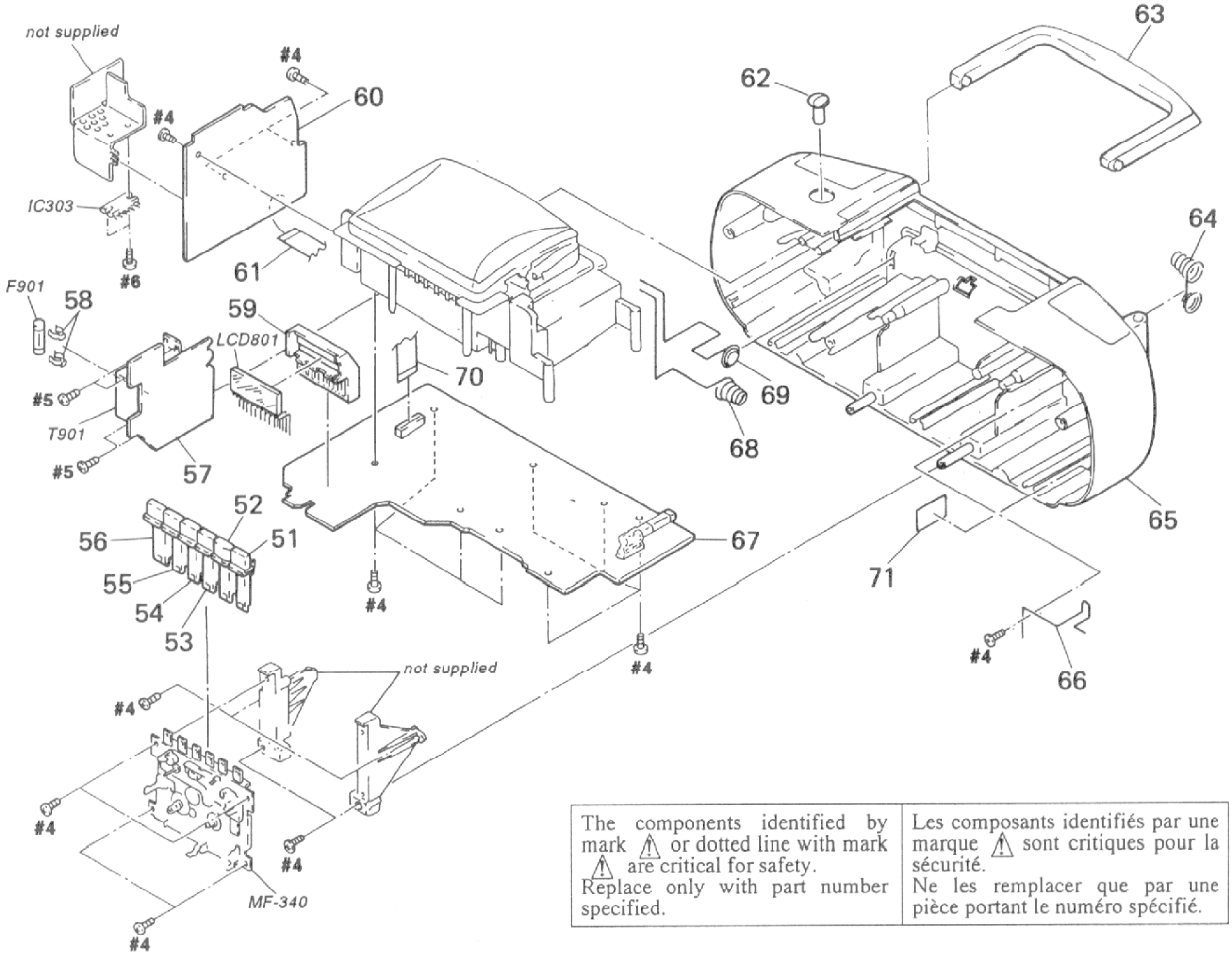
| 52 | 3- |
| 53 | 3- |
| 53 | 3- |
| 54 | 3- |
| 54 | 3- |
| 55 | 3- |
| 55 | 3- |
| 56 | 3- |
| 56 | 3- |
| * 57 | 1- |
| 58 | 1- |
| * 59 | 3- |
| * 60 | A- |
| * 60 | A- |
| * 60 | A |
| 61 | 1 |
| 62 | 3 |
| 62 | 3 |
| 63 | X |

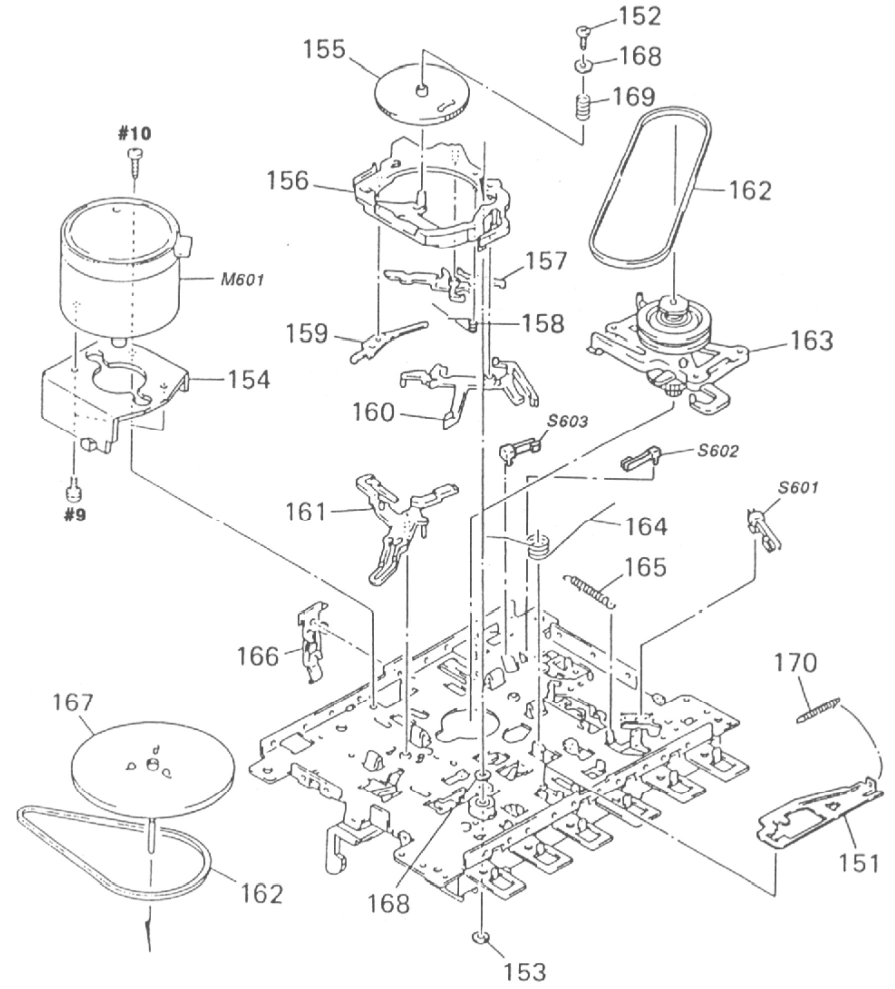
## 7-2. REAR CABINET SECTION



| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-923-419-01 | BUTTON (REC) (BLACK) | |
| 51 | 3-923-419-11 | BUTTON (REC) (BLUE) (CFD-340:AEP) | |
| 52 | 3-923-418-01 | BUTTON (PLAY) (BLACK) | |
| 52 | 3-923-418-11 | BUTTON (PLAY) (BLUE) (CFD-340:AEP) | |
| 53 | 3-923-417-01 | BUTTON (REW) (BLACK) | |
| 53 | 3-923-417-11 | BUTTON (REW) (BLUE) (CFD-340:AEP) | |
| 54 | 3-923-416-01 | BUTTON (FF) (BLACK) | |
| 54 | 3-923-416-11 | BUTTON (FF) (BLUE) (CFD-340:AEP) | |
| 55 | 3-923-415-01 | BUTTON (STOP) (BLACK) | |
| 55 | 3-923-415-11 | BUTTON (STOP) (BLUE) (CFD-340:AEP) | |
| 56 | 3-923-414-01 | BUTTON (PAUSE) (BLACK) | |
| 56 | 3-923-414-11 | BUTTON (PAUSE) (BLUE) (CFD-340:AEP) | |
| * 57 | 1-656-872-11 | POWER BOARD | |
| 58 | 1-533-217-31 | HOLDER, FUSE | |
| * 59 | 3-923-421-01 | HOLDER (LCD) | |
| * 60 | A-3305-099-A | AUDIO BOARD, COMPLETE (CFD-340) | |
| * 60 | A-3305-099-A | AUDIO BOARD, COMPLETE (CFD-340) | |
| * 60 | A-3305-214-A | AUDIO BOARD, COMPLETE (CFD-19/350) | |
| 61 | 1-769-829-11 | WIRE (FLAT TYPE) (FFC) (24 CORE) | |
| 62 | 3-923-665-01 | KNOB (TONE) (BLACK) | |
| 62 | 3-923-665-11 | KNOB (TONE) (BLUE) (CFD-340:AEP) | |
| 63 | X-3366-819-1 | HANDLE ASSY (BLACK) | |
| 63 | X-3370-888-1 | HANDLE ASSY (BLUE) (CFD-340:AEP) | |
| 64 | 3-386-979-01 | SPRING (+ -), BATTERY COIL | |
| 65 | 3-923-401-01 | CABINET (REAR) (BLACK) (CFD-340/350) | |
| 65 | 3-923-401-11 | CABINET (REAR) (BLACK) (CFD-19) | |
| 65 | 3-923-401-31 | CABINET (REAR) (BLUE) (CFD-340:AEP) | |
| 66 | 3-923-433-01 | CONTACT | |
| * 67 | A-3305-100-A | MAIN BOARD, COMPLETE (CFD-340:AEP, IT, UK) | |
| * 67 | A-3305-205-A | MAIN BOARD, COMPLETE (CFD-340:CND) | |
| * 67 | A-3305-208-A | MAIN BOARD, COMPLETE (CFD-350:AEP, G, IT, UK) | |
| * 67 | A-3305-215-A | MAIN BOARD, COMPLETE (CFD-19/350:CND) | |
| 68 | 3-923-432-01 | SPRING, BATTERY COIL | |
| 69 | 3-923-431-01 | TERMINAL BOARD, BATTERY | |
| 70 | 1-769-828-11 | WIRE (FLAT TYPE) (16 CORE) | |
| * 71 | 4-941-548-01 | LABEL, CLASS (1) (AEP, IT, UK) | |
| ⚠F901 | 1-576-108-11 | FUSE (4A/125V) (US, CND) | |
| ⚠F901 | 1-532-237-00 | FUSE, TIME LAG (T3.15/250V) (EXCEPT US, CND) | |
| IC303 | 8-759-822-51 | IC LA4620 | |
| LCD801 | 1-810-888-11 | DISPLAY PANEL, LIQUID CRYSTAL | |
| ⚠T901 | 1-427-949-11 | TRANSFORMER, POWER (EXCEPT US, CND) | |
| ⚠T901 | 1-427-951-11 | TRANSFORMER, POWER (US, CND) | |

## 7-3. MECHANISM DECK SECTION (1)
(MF-340)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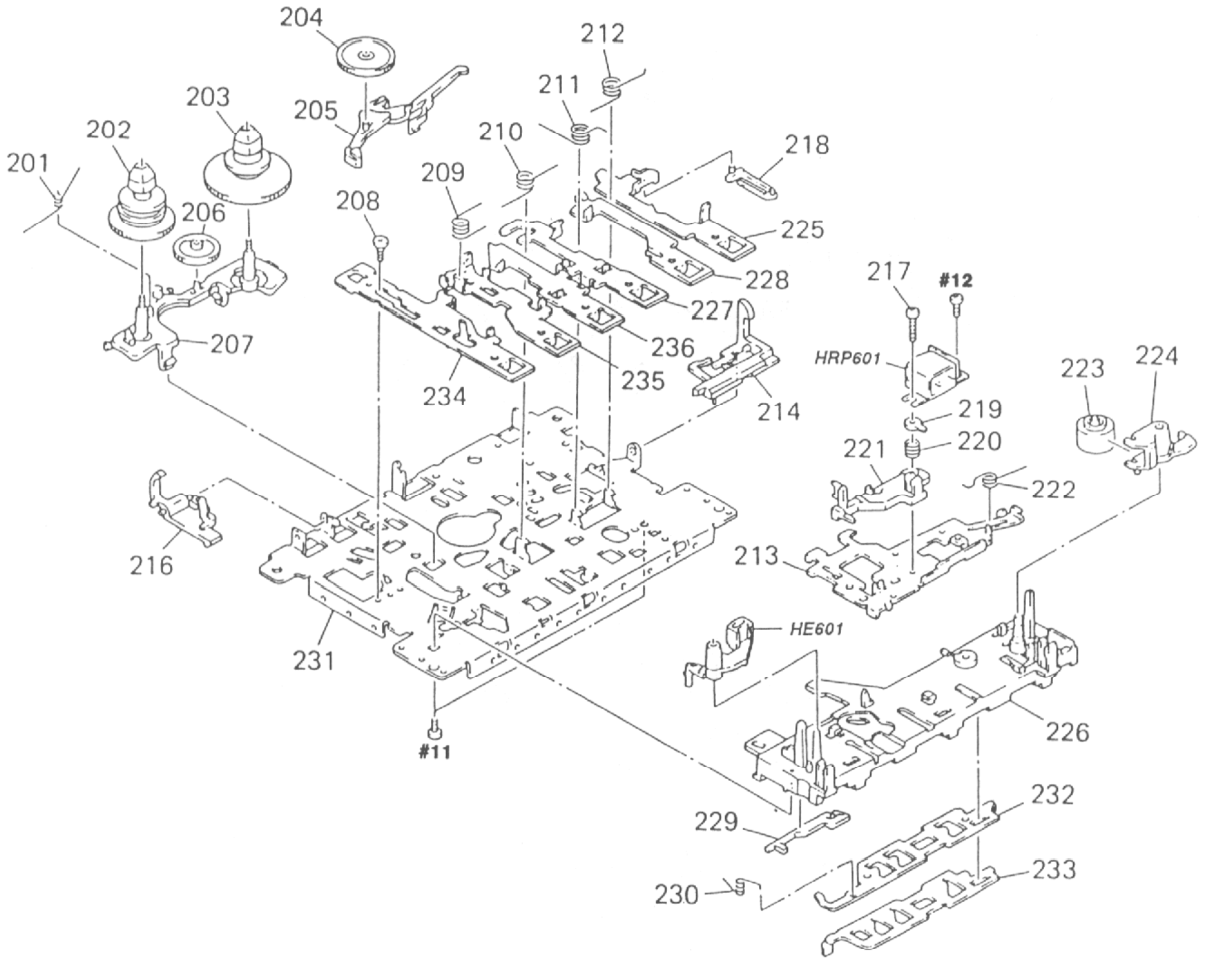
| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 3-379-844-01 | PLATE, STOP, FR | |
| 152 | 3-366-352-01 | SCREW | |
| 153 | 3-362-980-01 | WASHER | |
| * 154 | 3-362-988-01 | HOLDER, MOTOR | |
| 155 | X-3363-315-1 | GEAR, CAM | |
| 156 | 3-362-973-01 | AS (BASE) | |
| 157 | 3-362-976-01 | LEVER, CONTROL | |
| 158 | 3-362-977-01 | SPRING | |
| 159 | 3-362-978-01 | SPRING, PLATE | |
| 160 | 3-362-975-01 | LEVER, SENSOR | |
| 161 | 3-387-697-01 | SENSOR | |
| 162 | 3-362-989-01 | BELT | |
| 163 | 3-362-969-01 | IDLER ASSY, PF | |
| 164 | 3-362-970-01 | SPRING | |
| 165 | 3-362-971-01 | SPRING | |
| 166 | 3-911-189-01 | CASSETTE SPRING | |
| 167 | 3-387-698-01 | FW ASSY | |
| 168 | 3-369-961-01 | WASHER | |
| 169 | 3-369-962-01 | SPRING, COMPRESSION | |
| 170 | 3-379-843-01 | SPRING | |
| M601 | X-3366-491-1 | MOTOR ASSY | |
| S601 | 1-692-434-11 | SWITCH, LEAF (POWER) | |
| S602 | 1-692-434-11 | SWITCH, LEAF (PLAY) | |
| S603 | 1-692-434-11 | SWITCH, LEAF (REC) | |

## 7-4. MECHANISM DECK SECTION (2)
### (MF-340)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HRP601
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221
222
216
213
HE601
231
226
#11
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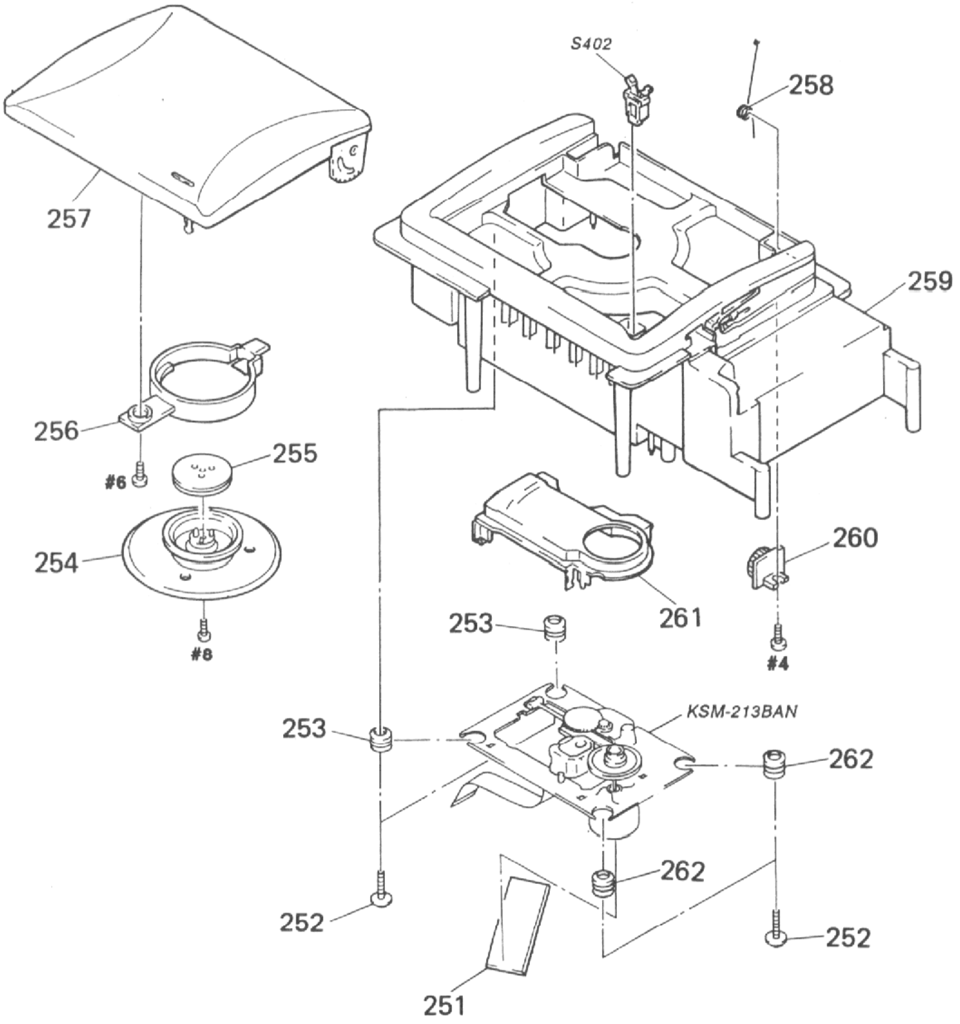
229
233
230

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 201 | 3-917-805-01 | SPRING | |
| 202 | X-3363-611-1 | REEL, S | |
| 203 | 3-362-962-01 | REEL ASSY, T | |
| 204 | 3-362-960-01 | PULLEY, IDLER | |
| 205 | 3-362-959-01 | ARM, IDLER | |
| 206 | 3-362-965-01 | IDLER, FF | |
| 207 | 3-362-961-01 | SPINDLE (BASE) | |
| 208 | 3-362-958-01 | SCREW | |
| 209 | 3-362-954-01 | SPRING | |
| 210 | 3-362-955-01 | SPRING | |
| 211 | 3-362-956-01 | SPRING | |
| 212 | 3-362-957-01 | SPRING | |
| * 213 | 3-362-984-01 | HEAD (BASE) | |
| 214 | 3-362-968-01 | LEVER, EJECT | |
| 216 | 3-362-966-01 | INTER LOCK | |
| 217 | 3-363-229-01 | SCREW | |
| 218 | 3-362-953-01 | ARM, PAUSE | |
| 219 | 3-363-230-01 | LUG | |
| 220 | 3-362-985-01 | SPRING | |
| 221 | 3-362-986-01 | HOLDER, HEAD | |
| 222 | 3-362-983-01 | SPRING | |
| 223 | 3-362-982-01 | PINCH ROLLER | |
| 224 | 3-362-981-01 | PINCH ARM | |
| * 225 | 3-362-952-01 | LEVER, PAUSE | |
| 226 | 3-362-942-01 | FRAME ASSY | |
| * 227 | 3-362-950-01 | LEVER, FF | |
| * 228 | 3-362-951-01 | LEVER, SE | |
| 229 | 3-362-944-01 | STOPPER, REC | |
| 230 | 3-362-945-01 | SPRING | |
| * 231 | 3-362-941-01 | CHASSIS | |
| * 232 | 3-362-943-01 | PLATE, FUNCTION | |
| * 233 | 3-362-946-01 | LEVER, SW | |
| * 234 | 3-362-947-01 | LEVER, REC | |
| * 235 | 3-362-948-01 | LEVER, PLAY | |
| * 236 | 3-362-949-01 | LEVER, REW | |
| HE601 | 1-500-031-11 | HEAD, MAGNETIC (ERASE) | |
| HRP601 | 1-500-168-11 | HEAD, MAGNETIC (RECORD/PLAYBACK) | |

## 7-5. CD SECTION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KSM-213BAN
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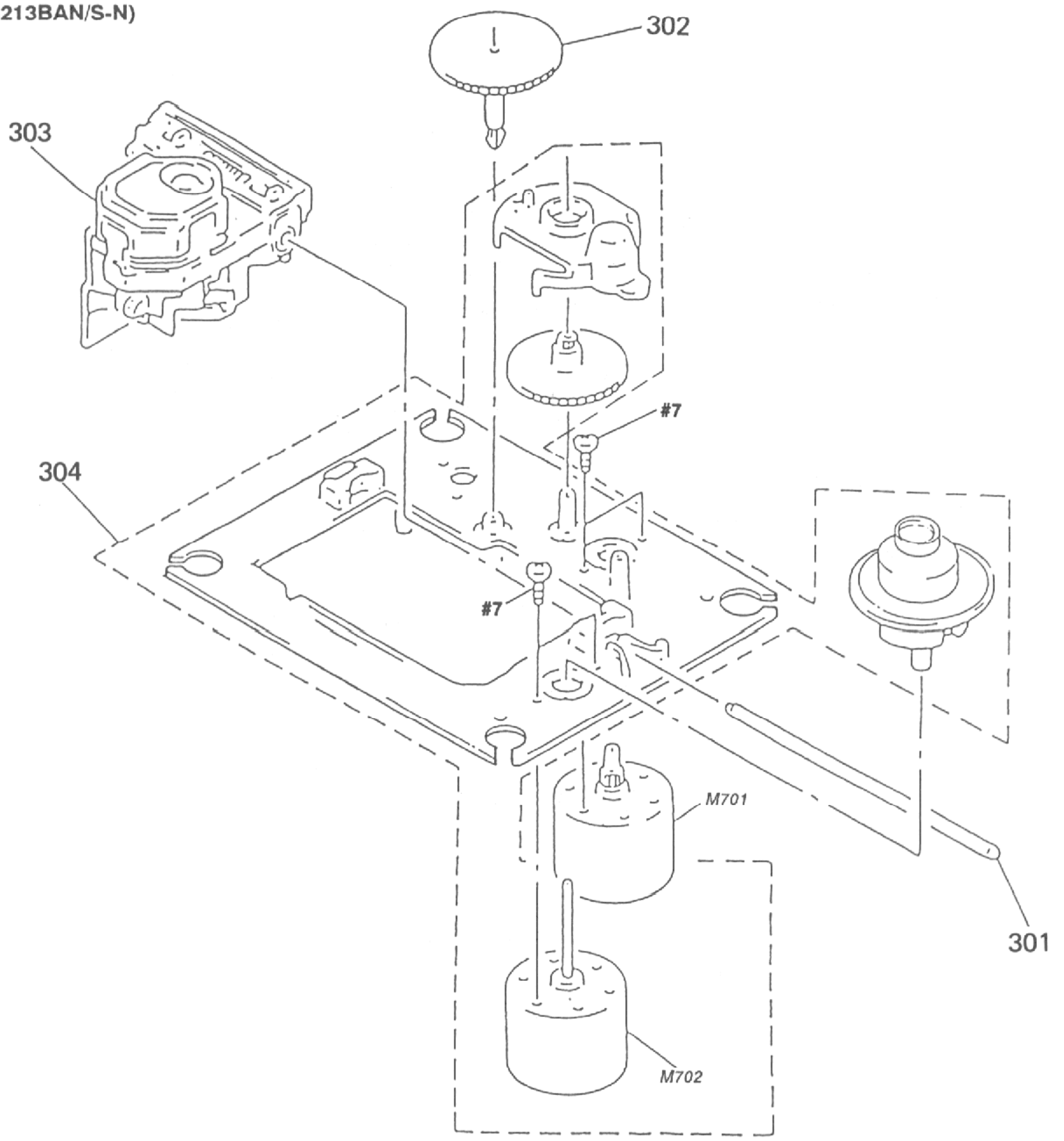
251

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 251 | 1-656-873-11 | CD MOTOR BOARD | |
| 252 | 3-916-006-01 | SCREW (2.6×16) | |
| 253 | 3-910-095-01 | RUBBER, VIBRATION PROOF | |
| 254 | 3-923-497-01 | PLATE, CHACK | |
| 255 | 1-452-732-11 | MAGNET | |
| 256 | 3-910-113-01 | HOLDER (CHUCK) | |
| 257 | 3-923-420-01 | LID (CD) (BLACK) (CFD-340) | |
| 257 | 3-923-420-11 | LID (CD) (BLACK) (CFD-350) | |
| 257 | 3-923-420-31 | LID (CD) (BLUE) (CFD-340:AEP) | |
| 257 | 3-923-420-21 | LID (CD) (CFD-19) | |
| 258 | 3-923-435-01 | SPRING (CD) | |
| 259 | 3-923-402-01 | CABINET (CD) (BLACK) | |
| 259 | 3-923-402-11 | CABINET (CD) (BLUE) (CFD-340:AEP) | |
| 260 | 3-351-377-01 | DAMPER | |
| 261 | 3-910-116-01 | COVER, CD | |
| 262 | 3-910-095-11 | RUBBER, VIBRATION PROOF | |
| S402 | 1-692-960-11 | SWITCH, PUSH (1 KEY) (DOOR OPEN/CLOSE) | |

## 7-6. OPTICAL PICK-UP SECTION
## (KSM-213BAN/S-N)



| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 301 | 2-626-908-01 | SHAFT, SLED | |
| 302 | 2-626-907-01 | GEAR (A) (S) | |
| ⚠303 | 8-848-376-01 | DEVICE, OPTICAL KSS-213B/S-N | |
| 304 | X-2625-770-1 | CHASSIS ASSY (MB) (RP), MOTOR (INCLUDING M702) (SPINDLE) | |
| M701 | X-3625-769-1 | GEAR, ASSY (MB) (RP), MOTOR (SLED) | |

## SECTION 8
## ELECTRICAL PARTS LIST

**AUDIO**

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian
  G : German
  IT : Italian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | A-3305-099-A | AUDIO BOARD, COMPLETE | | | | (CFD-340) |
| * | A-3305-214-A | AUDIO BOARD, COMPLETE | | | | (CFD-19/350) |
| | | ********************* | | | | |
| | | < CAPACITOR > | | | | |
| C101 | 1-162-301-11 | CERAMIC | 0.0015uF | 20% | 16V | |
| C102 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V | |
| C103 | 1-162-302-11 | CERAMIC | 0.0022uF | 30% | 16V | |
| C104 | 1-161-020-11 | CERAMIC | 0.039uF | 10% | 16V | |
| C105 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |
| C106 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C107 | 1-124-464-11 | ELECT | 0.22uF | 20% | 50V | |
| C108 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C109 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V | |
| C110 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C112 | 1-162-842-11 | CERAMIC | 0.018uF | 10% | 16V | |
| C113 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V | |
| C114 | 1-130-497-00 | MYLAR | 0.15uF | 5% | 50V | |
| C115 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C116 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C117 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V | |
| C118 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C119 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V | |
| C120 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C121 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C122 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C123 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C125 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C151 | 1-162-843-11 | CERAMIC | 0.022uF | 10% | 16V | (CFD-19/350) |
| C152 | 1-124-903-11 | ELECT | 1uF | 20% | 50V | (CFD-19/350) |
| C153 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | (CFD-19/350) |
| C154 | 1-130-497-00 | MYLAR | 0.15uF | 5% | 50V | (CFD-19/350) |
| C155 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | (CFD-19/350) |
| C156 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | (CFD-19/350) |
| C201 | 1-162-301-11 | CERAMIC | 0.0015uF | 20% | 16V | |
| C202 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V | |
| C203 | 1-162-302-11 | CERAMIC | 0.0022uF | 30% | 16V | |
| C204 | 1-161-020-11 | CERAMIC | 0.039uF | 10% | 16V | |
| C205 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |
| C206 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C207 | 1-124-464-11 | ELECT | 0.22uF | 20% | 50V | |
| C208 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C209 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V | |
| C210 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C212 | 1-162-842-11 | CERAMIC | 0.018uF | 10% | 16V | |
| C213 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V | |
| C214 | 1-130-497-00 | MYLAR | 0.15uF | 5% | 50V | |
| C215 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C216 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C217 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V | |
| C218 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C219 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V | |
| C220 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C221 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C222 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C223 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C225 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C251 | 1-162-843-11 | CERAMIC | 0.022uF | 10% | 16V | (CFD-19/350) |
| C252 | 1-124-903-11 | ELECT | 1uF | 20% | 50V | (CFD-19/350) |
| C253 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | (CFD-19/350) |
| C254 | 1-130-497-00 | MYLAR | 0.15uF | 5% | 50V | (CFD-19/350) |
| C255 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | (CFD-19/350) |
| C256 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | (CFD-19/350) |
| C301 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C302 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C303 | 1-124-473-11 | ELECT | 1000uF | 20% | 10V | |
| C304 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C305 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C306 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C317 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |

## AUDIO

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| C318 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |
| C319 | 1-124-473-11 | ELECT | 1000uF | 20% | 10V | (CFD-19/350) |
| C319 | 1-104-666-11 | ELECT | 220uF | 20% | 10V | (CFD-340) |
| C320 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C321 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C323 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C324 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C325 | 1-104-666-11 | ELECT | 220uF | 20% | 10V | |
| C326 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | |
| C327 | 1-126-937-11 | ELECT | 4700uF | 20% | 16V | |
| C328 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C329 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |
| C330 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C331 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |
| C332 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C333 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C349 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | (CFD-19/350) |
| C352 | 1-124-443-00 | ELECT | 100uF | 20% | 10V | (CFD-19/350) |
| C353 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | (CFD-19/350) |
| C372 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V | |
| C373 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |
| C374 | 1-162-301-11 | CERAMIC | 0.0015uF | 20% | 16V | |
| C391 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V | |
| C392 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V | (CFD-19/350) |
| C393 | 1-104-666-11 | ELECT | 220uF | 20% | 10V | |
| C395 | 1-126-233-11 | ELECT | 22uF | 20% | 50V | |
| C396 | 1-126-233-11 | ELECT | 22uF | 20% | 50V | |
| C397 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C398 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C399 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |

< CONNECTOR >

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * CN801 | 1-695-109-11 | PIN, CONNECTOR (PC BOARD) 7P | (CFD-340:CND) |
| CNP301 | 1-506-986-11 | PIN, CONNECTOR (PC BOARD) 4P | |
| * CNP302 | 1-695-106-21 | PIN, CONNECTOR (PC BOARD) 4P | |
| CNP303 | 1-695-347-21 | PIN, CONNECTOR (PC BOARD) 24P | |
| * CNP307 | 1-691-579-11 | PIN, CONNECTOR (PC BOARD) 8P | |

< DIODE >

| Ref. No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| D301 | 8-719-109-89 | DIODE | RD5.6ESB2 | |
| D302 | 8-719-109-97 | DIODE | RD6.8ES-B2 | |
| D303-306 | 8-719-901-33 | DIODE | 1SS133 | |
| D310 | 8-719-901-33 | DIODE | 1SS133 | |
| D316 | 8-719-901-33 | DIODE | 1SS133 | |
| D317 | 8-719-901-33 | DIODE | 1SS133 | (CFD-19/350) |
| D371 | 8-719-901-33 | DIODE | 1SS133 | |
| D396 | 8-719-901-33 | DIODE | 1SS133 | (CFD-19/350) |
| D397 | 8-719-901-33 | DIODE | 1SS133 | (CFD-19/350) |
| D399 | 8-719-901-33 | DIODE | 1SS133 | |

< IC >

| Ref. No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| IC301 | 8-759-264-71 | IC | TA2068N | |
| IC302 | 8-759-330-93 | IC | TDA7309 | |
| IC303 | 8-759-822-51 | IC | LA4620 | |
| IC304 | 8-759-634-51 | IC | M5218AP | (CFD-19/350) |

< JACK >

| Ref. No. | Part No. | Description |
|---|---|---|
| J101 | 1-566-891-11 | JACK ( 🎧 ) |

< CABLE, HOLDER >

| Ref. No. | Part No. | Description |
|---|---|---|
| * KH306 | 1-565-384-11 | HOLDER, CABLE 3P |

< COIL >

| Ref. No. | Part No. | Description | |
|---|---|---|---|
| L101 | 1-412-488-11 | INDUCTOR | 1uH |
| L102 | 1-410-526-11 | INDUCTOR | 10uH |
| L201 | 1-412-488-11 | INDUCTOR | 1uH |
| L202 | 1-410-526-11 | INDUCTOR | 10uH |
| L301 | 1-410-526-11 | INDUCTOR | 10uH |

< TRANSISTOR >

| Ref. No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| Q101 | 8-729-920-21 | TRANSISTOR | DTC314TKH04 | |
| Q151 | 8-729-011-92 | TRANSISTOR | 2SC2001TP-K1K2 | (CFD-19/350) |
| Q201 | 8-729-920-21 | TRANSISTOR | DTC314TKH04 | |
| Q251 | 8-729-011-92 | TRANSISTOR | 2SC2001TP-K1K2 | (CFD-19/350) |
| Q301 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | |
| Q302 | 8-729-921-65 | TRANSISTOR | DTC143ES | |
| Q303 | 8-729-921-65 | TRANSISTOR | DTC143ES | |
| Q304 | 8-729-801-84 | TRANSISTOR | 2SB1013-4 | |
| Q305 | 8-729-281-53 | TRANSISTOR | 2SC1815-GR | |
| Q306 | 8-729-281-53 | TRANSISTOR | 2SC1815-GR | |
| Q307 | 8-729-011-92 | TRANSISTOR | 2SC2001TP-K1K2 | |
| Q310 | 8-729-021-82 | TRANSISTOR | 2SD2396K | |
| Q313 | 8-729-801-84 | TRANSISTOR | 2SB1013-4 | |
| Q314 | 8-729-921-65 | TRANSISTOR | DTC143ES | |
| Q316 | 8-729-900-65 | TRANSISTOR | DTA144ES | |
| Q371 | 8-729-281-53 | TRANSISTOR | 2SC1815-GR | |
| Q372 | 8-729-921-65 | TRANSISTOR | DTC143ES | |
| Q373-375 | 8-729-011-92 | TRANSISTOR | 2SC2001TP-K1K2 | |
| Q376 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | |
| Q377 | 8-729-119-78 | TRANSISTOR | 2SC403SP-51 | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < RESISTOR > | |
| R101 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R102 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R103 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R104 | 1-249-404-00 | CARBON 82 5% 1/4W | |
| R105 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R106 | 1-249-420-11 | CARBON 1.8K 5% 1/4W | |
| R107 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R111 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R121 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R122 | 1-247-852-11 | CARBON 7.5K 5% 1/4W | |
| R123 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R124 | 1-249-385-11 | CARBON 2.2 5% 1/6W | |
| R125 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R126 | 1-249-385-11 | CARBON 2.2 5% 1/6W | |
| R127 | 1-249-429-11 | CARBON 10K 5% 1/4W | (CFD-19/350) |
| R128 | 1-249-417-11 | CARBON 1K 5% 1/4W | (CFD-19/350) |
| R130 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R151 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | (CFD-19/350) |
| R152 | 1-249-427-11 | CARBON 6.8K 5% 1/4W | (CFD-19/350) |
| R153 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | (CFD-19/350) |
| R154 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | (CFD-19/350) |
| R155 | 1-249-417-11 | CARBON 1K 5% 1/4W | (CFD-19/350) |
| R156 | 1-249-441-11 | CARBON 100K 5% 1/4W | (CFD-19/350) |
| R157 | 1-249-417-11 | CARBON 1K 5% 1/4W | (CFD-19/350) |
| R158 | 1-247-895-91 | CARBON 470K 5% 1/4W | (CFD-19/350) |
| R201 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R202 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R203 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R204 | 1-249-404-00 | CARBON 82 5% 1/4W | |
| R205 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R206 | 1-249-420-11 | CARBON 1.8K 5% 1/4W | |
| R207 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R211 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R221 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R222 | 1-247-852-11 | CARBON 7.5K 5% 1/4W | |
| R223 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R224 | 1-249-385-11 | CARBON 2.2 5% 1/6W | |
| R225 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R226 | 1-249-385-11 | CARBON 2.2 5% 1/6W | |
| R227 | 1-249-429-11 | CARBON 10K 5% 1/4W | (CFD-19/350) |
| R228 | 1-249-417-11 | CARBON 1K 5% 1/4W | (CFD-19/350) |
| R230 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R251 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | (CFD-19/350) |
| R252 | 1-249-427-11 | CARBON 6.8K 5% 1/4W | (CFD-19/350) |
| R253 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | (CFD-19/350) |
| R254 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | (CFD-19/350) |
| R255 | 1-249-417-11 | CARBON 1K 5% 1/4W | (CFD-19/350) |
| R256 | 1-249-441-11 | CARBON 100K 5% 1/4W | (CFD-19/350) |
| R257 | 1-249-417-11 | CARBON 1K 5% 1/4W | (CFD-19/350) |
| R258 | 1-247-895-91 | CARBON 470K 5% 1/4W | (CFD-19/350) |
| R301 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R302 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R303 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R304 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R305 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R306 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |
| R307 | 1-247-812-11 | CARBON 160 5% 1/4W | |
| R308 | 1-249-411-11 | CARBON 330 5% 1/4W | |
| R309 | 1-249-385-11 | CARBON 2.2 5% 1/6W | |
| R310 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R311 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R312 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R313 | 1-247-815-91 | CARBON 220 5% 1/4W | |
| R314 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R315 | 1-249-385-11 | CARBON 2.2 5% 1/6W | |
| R316 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R324 | 1-249-402-11 | CARBON 56 5% 1/4W | |
| R326 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R351 | 1-249-429-11 | CARBON 10K 5% 1/4W | (CFD-19/350) |
| R352 | 1-249-429-11 | CARBON 10K 5% 1/4W | (CFD-19/350) |
| R353 | 1-247-807-31 | CARBON 100 5% 1/4W | (CFD-19/350) |
| R361 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R371 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R372 | 1-249-389-11 | CARBON 4.7 5% 1/4W | |
| R373 | 1-249-399-11 | CARBON 33 5% 1/4W | |
| R374 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R375 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R376-378 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R379 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R380 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R389 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R391 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R392 | 1-247-881-00 | CARBON 120K 5% 1/4W | (CFD-19/350) |
| R393 | 1-249-414-11 | CARBON 560 5% 1/4W | (CFD-19/350) |
| R394 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R395 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R396 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R397 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R398 | 1-247-903-00 | CARBON 1M 5% 1/4W | (CFD-19/350) |
| R399 | 1-247-903-00 | CARBON 1M 5% 1/4W | |
| R816 | 1-247-815-91 | CARBON 220 5% 1/4W | (CFD-340/350:AEP, G, IT, UK) |
| R816 | 1-249-415-11 | CARBON 680 5% 1/4W | (CFD-340:CND) |

# AUDIO CD MOTOR KEY MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < VARIABLE RESISTOR > | |
| RV101 | 1-241-745-11 | RES, VAR, CARBON 20K/20K (TONE) | |
| | | < TRANSFORMER > | |
| T371 | 1-433-268-00 | TRANSFORMER, BIAS OSCILLATOR | |
| ************************************************************ | | | |
| * | 1-656-873-11 | CD MOTOR BOARD<br>************** | |
| | | < CONNECTOR > | |
| * CNP701 | 1-695-108-11 | PIN, CONNECTOR (PC BOARD) 6P | |
| | | < SWITCH > | |
| S701 | 1-571-936-11 | SWITCH, LEAF (CD DET) | |
| ************************************************************ | | | |
| * | 1-656-876-11 | KEY BOARD<br>********* | |
| | | < CAPACITOR > | |
| C801 | 1-162-282-31 | CERAMIC 100PF 10% 50V | (CFD-19/350) |
| C802 | 1-124-589-11 | ELECT 47uF 20% 16V | (CFD-19/350) |
| | | < CONNECTOR > | |
| * CN801 | 1-695-112-11 | PIN, CONNECTOR (PC BOARD) 10P | (CFD-19/350) |
| * CN801 | 1-695-110-11 | PIN, CONNECTOR (PC BOARD) 8P | (CFD-340:AEP, IT, UK) |
| | | < DIODE > | |
| D801 | 8-719-938-69 | LED GL3PR8 (OPR/BATT) | |
| D802 | 8-719-938-69 | LED GL3PR8 (STANDBY) | (AEP, IT, UK, G) |
| | | < IC > | |
| IC801 | 8-749-011-22 | IC GP1U27X | (CFD-19/350) |
| | | < RESISTOR > | |
| R802 | 1-249-429-11 | CARBON 10K 5% 1/4W | (CFD-19/350) |
| R803 | 1-249-420-11 | CARBON 1.8K 5% 1/4W | |
| R804 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R805 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R806 | 1-249-427-11 | CARBON 6.8K 5% 1/4W | |
| R808 | 1-247-848-11 | CARBON 5.1K 5% 1/4W | |
| R809 | 1-249-418-11 | CARBON 1.2K 5% 1/4W | |
| R810 | 1-249-416-11 | CARBON 820 5% 1/4W | |
| R811 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R812 | 1-249-416-11 | CARBON 820 5% 1/4W | |
| R813 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R814 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | (AEP, IT, UK, G) |
| R815 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R816 | 1-247-815-91 | CARBON 220 5% 1/4W | |
| | | < SWITCH > | |
| S802 | 1-572-198-11 | SWITCH, KEYBOARD (MEGA BASS) | (CFD-19/350) |
| S803 | 1-572-198-11 | SWITCH, KEYBOARD (MODE) | |
| S804 | 1-572-198-11 | SWITCH, KEYBOARD (DISPLAY/ENT/MEN) | |
| S805 | 1-572-198-11 | SWITCH, KEYBOARD (VOLUME +) | |
| S806 | 1-572-198-11 | SWITCH, KEYBOARD (VOLUME -) | |
| S807 | 1-572-198-11 | SWITCH, KEYBOARD (⏭) | |
| S808 | 1-572-198-11 | SWITCH, KEYBOARD (⏮) | |
| S810 | 1-572-198-11 | SWITCH, KEYBOARD (TUNING +) | |
| S811 | 1-572-198-11 | SWITCH, KEYBOARD (TUNING -) | |
| S812 | 1-572-198-11 | SWITCH, KEYBOARD (BAND) | |
| S813 | 1-572-198-11 | SWITCH, KEYBOARD (POWER) | |
| S814 | 1-572-198-11 | SWITCH, KEYBOARD (□) | |
| S815 | 1-572-198-11 | SWITCH, KEYBOARD (▷||) | |
| ************************************************************ | | | |
| * | A-3305-100-A | MAIN BOARD, COMPLETE | (CFD-340:AEP, IT, UK) |
| * | A-3305-205-A | MAIN BOARD, COMPLETE | (CFD-340:CND) |
| * | A-3305-208-A | MAIN BOARD, COMPLETE | (CFD-350:AEP, G, IT, UK) |
| * | A-3305-215-A | MAIN BOARD, COMPLETE<br>******************* | (CFD-19/350:CND) |
| | | < CAPACITOR > | |
| C2 | 1-162-294-31 | CERAMIC 0.001uF 10% 50V | |
| C3 | 1-101-001-00 | CERAMIC 0.001uF 50V | |
| C4 | 1-102-958-00 | CERAMIC 20PF 5% 50V | (US, CND) |
| C4 | 1-102-953-00 | CERAMIC 18PF 5% 50V | (AEP, IT, UK, G) |
| C5 | 1-162-203-31 | CERAMIC 15PF 5% 50V | (US, CND) |
| C5 | 1-162-205-31 | CERAMIC 18PF 5% 50V | (AEP, IT, UK, G) |
| C7 | 1-162-839-11 | CERAMIC 0.01uF 10% 16V | |
| C8 | 1-162-201-31 | CERAMIC 12PF 5% 50V | |
| C9 | 1-102-820-00 | CERAMIC 330PF 5% 50V | |
| C10 | 1-162-851-11 | CERAMIC 0.1uF 16V | |
| C11 | 1-162-288-31 | CERAMIC 330PF 10% 50V | |
| C12 | 1-124-907-11 | ELECT 10uF 20% 50V | |
| C13 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C14 | 1-162-849-11 | CERAMIC 0.068uF 10% 16V | |
| C15 | 1-162-850-11 | CERAMIC 0.082uF 10% 16V | |
| C16 | 1-162-850-11 | CERAMIC 0.082uF 10% 16V | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| C17 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C18 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |
| C19 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C22 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C23 | 1-162-843-11 | CERAMIC | 0.022uF | 10% | 16V | (US, CND) |
| C23 | 1-162-840-11 | CERAMIC | 0.012uF | 10% | 16V | (EXCEPT US, CND) |
| C24 | 1-162-843-11 | CERAMIC | 0.022uF | 10% | 16V | (US, CND) |
| C24 | 1-162-840-11 | CERAMIC | 0.012uF | 10% | 16V | (EXCEPT US, CND) |
| C28 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V | |
| C29 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V | |
| C44 | 1-162-839-11 | CERAMIC | 0.01uF | 10% | 16V | |
| C45 | 1-136-177-00 | FILM | 1uF | 5% | 50V | |
| C46 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C47 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C48 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C49 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C50 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C51 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C53 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C54 | 1-102-518-11 | CERAMIC | 33PF | 5% | 50V | |
| C55 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V | |
| C56 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C57 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V | |
| C58 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C59 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C60 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C62 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | (EXCEPT US, CND) |
| C62 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | (US, CND) |
| C63 | 1-101-001-00 | CERAMIC | 0.001uF | | 50V | |
| C65 | 1-101-001-00 | CERAMIC | 0.001uF | | 50V | |
| C68 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | (US, CND) |
| C69 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C70 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C71 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C72 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C73 | 1-101-880-00 | CERAMIC | 47PF | 5% | 50V | |
| C74 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C75 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | (AEP, IT, UK, G) |
| C76 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C77 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C78 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C80 | 1-162-195-31 | CERAMIC | 4.7PF | 10% | 50V | (AEP, IT, UK, G) |
| C81 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V | |
| C84 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C85 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | (AEP, IT, UK, G) |
| C86 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| C91 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | (AEP, IT, UK, G) |
| C92 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | (AEP, IT, UK, G) |
| C312 | 1-104-666-11 | ELECT | 220uF | 20% | 10V | |
| C313 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C314 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C315 | 1-104-666-11 | ELECT | 220uF | 20% | 10V | |
| C316 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C401 | 1-162-209-31 | CERAMIC | 27PF | 5% | 50V | |
| C402 | 1-162-209-31 | CERAMIC | 27PF | 5% | 50V | |
| C403 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C404-406 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C413 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C414 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C419 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C421 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C431 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C432 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C433 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C439 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C475 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C476 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C486 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C490 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C491 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C494 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C700 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C701 | 1-162-302-11 | CERAMIC | 0.0022uF | 30% | 16V | |
| C702-704 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V | |
| C705 | 1-131-375-00 | TANTALUM | 4.7uF | 10% | 10V | |
| C706 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C707 | 1-130-486-00 | MYLAR | 0.018uF | 10% | 50V | |
| C708 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V | |
| C709 | 1-126-962-11 | ELECT | 3.3uF | 20% | 50V | |
| C710 | 1-130-493-00 | MYLAR | 0.068uF | 5% | 50V | |
| C711 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V | |
| C712 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C713 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C714 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V | |
| C715 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C716 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V | |
| C717 | 1-104-664-11 | ELECT | 47uF | 20% | 10V | |
| C718 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C719 | 1-162-600-11 | CERAMIC | 0.0047uF | 30% | 16V | |
| C720 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V | |
| C721 | 1-130-491-00 | MYLAR | 0.047uF | 5% | 50V | |
| C722 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C723 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V | |

# MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| C725 | 1-162-199-31 | CERAMIC 10PF 5% 50V | |
| C726 | 1-162-294-31 | CERAMIC 0.001uF 10% 50V | |
| C727 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C728 | 1-136-165-00 | FILM 0.1uF 5% 50V | |
| C729 | 1-104-664-11 | ELECT 47uF 20% 10V | |
| C730 | 1-124-472-11 | ELECT 470uF 20% 10V | |
| C731 | 1-162-294-31 | CERAMIC 0.001uF 10% 50V | |
| C732 | 1-130-484-00 | MYLAR 0.012uF 5% 50V | |
| C734 | 1-130-481-00 | MYLAR 0.0068uF 5% 50V | |
| C738 | 1-162-294-31 | CERAMIC 0.001 10% 50V | |
| C740 | 1-164-159-21 | CERAMIC 0.1uF 50V | |
| C741 | 1-104-664-11 | ELECT 47uF 20% 10V | |
| C742 | 1-136-173-00 | FILM 0.47uF 5% 50V | |
| C743 | 1-162-290-31 | CERAMIC 470PF 10% 50V | |
| C744 | 1-162-286-21 | CERAMIC 220PF 10% 50V | |
| C745 | 1-136-169-00 | FILM 0.22uF 5% 50V | |
| C746 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C747 | 1-130-483-00 | MYLAR 0.01uF 5% 50V | |
| C750 | 1-164-159-21 | CERAMIC 0.1uF 50V | |
| C752 | 1-162-199-31 | CERAMIC 10PF 5% 50V | |
| C753 | 1-162-199-31 | CERAMIC 10PF 5% 50V | |
| C754 | 1-104-666-11 | ELECT 220uF 20% 10V | |
| C755 | 1-164-159-21 | CERAMIC 0.1uF 50V | |
| C756 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C758 | 1-162-306-11 | CERAMIC 0.01 30% 16V | |
| C760 | 1-104-666-11 | ELECT 220uF 20% 10V | |
| C762 | 1-162-294-31 | CERAMIC 0.001uF 10% 50V | |
| C763 | 1-162-600-11 | CERAMIC 0.0047uF 30% 16V | |
| C764 | 1-126-963-11 | ELECT 4.7uF 20% 50V | |
| C773 | 1-162-600-11 | CERAMIC 0.0047uF 30% 16V | |
| C774 | 1-126-963-11 | ELECT 4.7uF 20% 50V | |
| C780 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C781 | 1-104-666-11 | ELECT 220uF 20% 10V | |
| C782 | 1-162-294-31 | CERAMIC 0.001uF 10% 50V | |
| C783 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C784 | 1-130-491-00 | MYLAR 0.047uF 5% 50V | |
| C785 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C786 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C787 | 1-104-666-11 | ELECT 220uF 20% 10V | |
| C788 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C790 | 1-124-902-00 | ELECT 0.47uF 20% 50V | |
| C792-794 | 1-162-282-31 | CERAMIC 100PF 10% 50V | |
| C796 | 1-162-306-11 | CERAMIC 0.01uF 30% 16V | |
| C797 | 1-162-294-31 | CERAMIC 0.001 10% 50V | |
| C799 | 1-126-940-11 | ELECT 330uF 20% 10V | |

< FILTER >

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| CF1-3 | 1-760-127-11 | FILTER, CERAMIC (US, CND) | |
| CF1-3 | 1-760-468-11 | FILTER, CERAMIC (EXCEPT US, CND) | |
| CF4 | 1-579-762-11 | VIBRATOR, CERAMIC | |

< COMPOSITION CIRCUIT BLOCK >

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| CFT1 | 1-239-173-11 | ENCAPSULATED COMPONENT | |

< CONNECTOR >

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| CN2 | 1-533-233-11 | HOLDER, FUSE | |
| CN701 | 1-770-674-11 | CONNECTOR, FFC/FPC | |
| * CN703 | 1-691-577-11 | PIN, CONNECTOR (PC BOARD) 6P | |
| * CN706 | 1-691-581-11 | PIN, CONNECTOR (PC BOARD) 10P | (CFD-19/350) |
| * CN706 | 1-691-578-11 | PIN, CONNECTOR (PC BOARD) 7P | (CFD-340:CND) |
| * CN706 | 1-691-579-11 | PIN, CONNECTOR (PC BOARD) 8P | (CFD-340:AEP, IT, UK) |
| CN707 | 1-695-347-21 | PIN, CONNECTOR (PC BOARD) 24P | |

< TRIMMER >

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| CT1<br>CT2 | 1-141-411-11 | CAP, ADJ 20PF | |

< DIODE >

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D1 | 8-719-050-72 | DIODE KV1370NT | |
| D2 | 8-719-050-72 | DIODE KV1370NT | |
| D3 | 8-719-050-70 | DIODE KV1520NT | |
| D6 | 8-719-901-33 | DIODE 1SS133 | |
| D7 | 8-719-901-33 | DIODE 1SS133 | |
| D308 | 8-719-901-33 | DIODE 1SS133 | |
| D309 | 8-719-901-33 | DIODE 1SS133 | |
| D311-315 | 8-719-901-33 | DIODE 1SS133 | |
| D702 | 8-719-901-33 | DIODE 1SS133 | |
| D703 | 8-719-901-33 | DIODE 1SS133 | |

< FERRITE BEAD >

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| FB1 | 1-410-397-21 | FERRITE BEAD INDUCTOR (AEP, IT, UK, G) | |
| FB712 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| FB713 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| FB715 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| FB716 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| FB723 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| FB741 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| FB742 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |

**MAIN**

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < FILTER > | |
| FL1 | 1-236-711-21 | FILTER, BAND PASS | |
| | | < IC > | |
| IC1 | 8-759-188-84 | IC TA2008N | |
| IC3 | 8-759-333-33 | IC BU2614 | |
| IC311 | 8-759-912-55 | IC S-81250HG | |
| IC401 | 8-759-343-10 | IC MSM65353-014GS-V1K2 | |
| IC402 | 8-759-165-81 | IC PST600D-T | |
| IC403 | 8-759-336-03 | IC S-2900ADP | |
| IC701 | 8-752-069-56 | IC CXA1782BQ | |
| IC702 | 8-752-372-94 | IC CXD2507AQ | |
| IC703 | 8-759-332-98 | IC BA6196FP | |
| IC704 | 8-759-283-60 | IC SM5875AM-ET | |
| | | < CABLE, HOLDER > | |
| * KH701 | 1-573-287-11 | HOLDER, CABLE 2P | |
| | | < COIL > | |
| L1 | 1-406-994-21 | COIL, FM RF (US, CND) | |
| L1 | 1-406-994-11 | COIL, FM RF (AEP, IT, UK, G) | |
| L1 | 1-406-995-11 | COIL, FM OSC (EE) | |
| L2 | 1-409-904-11 | COIL, FM OSC (US, CND) | |
| L2 | 1-409-905-11 | COIL, FM RF (AEP, IT, UK, G) | |
| L2 | 1-406-994-11 | COIL, FM RF (EE) | |
| L3 | 1-501-762-11 | ANTENNA, FERRITE-ROD (MW) | |
| L4 | 1-411-234-11 | COIL, AM OSC | |
| L5 | 1-412-514-11 | INDUCTOR 220uH | |
| L6 | 1-410-526-11 | INDUCTOR 10uH | |
| L7 | 1-410-527-11 | INDUCTOR 100uH | |
| L8 | 1-410-527-11 | INDUCTOR 100uH | |
| L401 | 1-410-527-11 | INDUCTOR 100uH | |
| L702 | 1-410-501-11 | INDUCTOR 2.2uH | |
| L703 | 1-410-501-11 | INDUCTOR 2.2uH | |
| L760 | 1-412-503-11 | INDUCTOR 22uH | |
| L770 | 1-412-503-11 | INDUCTOR 22uH | |
| L773 | 1-412-503-11 | INDUCTOR 22uH | |
| L774 | 1-410-501-11 | INDUCTOR 2.2uH | |
| | | < LIQUID CRYSTAL DISPLAY > | |
| LCD801 | 1-810-888-11 | DISPLAY PANEL, LIQUID CRYSTAL | |
| | | < TRANSISTOR > | |
| Q1-4 | 8-729-904-36 | TRANSISTOR DTC114YS | |
| Q10 | 8-729-904-36 | TRANSISTOR DTC114YS | |
| Q11 | 8-729-904-36 | TRANSISTOR DTC114YS | |
| Q13 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q14 | 8-729-904-36 | TRANSISTOR DTC114YS | |
| Q15 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q16 | 8-729-012-83 | FET 2SK679A | |
| Q18 | 8-729-106-07 | FET 2SK514-H | |
| Q19 | 8-729-922-66 | TRANSISTOR 2SC2410SN | |
| Q308 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| Q309 | 8-729-921-65 | TRANSISTOR DTC143ES | |
| Q311 | 8-729-801-84 | TRANSISTOR 2SB1013-4 | |
| Q312 | 8-729-921-65 | TRANSISTOR DTC143ES | |
| Q315 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q317 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| Q318 | 8-729-921-65 | TRANSISTOR DTC143ES | |
| Q319 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q320 | 8-729-921-65 | TRANSISTOR DTC143ES | |
| Q701 | 8-729-801-84 | TRANSISTOR 2SB1013-4 | |
| Q702 | 8-729-900-85 | TRANSISTOR DTC144WS | |
| Q703 | 8-729-900-74 | TRANSISTOR DTC143TS | |
| Q705 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q760 | 8-729-900-74 | TRANSISTOR DTC143TS | |
| Q770 | 8-729-900-74 | TRANSISTOR DTC143TS | |
| | | < RESISTOR > | |
| R1 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R2 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R3 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R4 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R5 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R6 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R7 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R8 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R9 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R10 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R11 | 1-247-815-91 | CARBON 220 5% 1/4W | |
| R14 | 1-249-399-11 | CARBON 33 5% 1/4W | |
| R25 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R26 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R27 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R28 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R29 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R30 | 1-249-412-11 | CARBON 390 5% 1/4W | |
| R31 | 1-247-815-91 | CARBON 220 5% 1/4W | (US, CND) |
| R31 | 1-247-807-31 | CARBON 100 5% 1/4W | (AEP, IT, UK, G) |
| R35 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R37 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R38-39 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R40 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R41 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R42 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R43 | 1-249-437-11 | CARBON 47K 5% 1/4W | |

## MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| R44 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R45 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R46 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R48 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R49 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R50 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R51 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R52 | 1-247-883-00 | CARBON 150K 5% 1/4W | |
| R56 | 1-249-407-11 | CARBON 150 5% 1/4W | |
| R57 | 1-247-791-91 | CARBON 22 5% 1/4W | |
| R58 | 1-249-413-11 | CARBON 470 5% 1/4W | (CFD-340:CND, CFD-350:AEP, G, IT, UK) |
| R59 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R60 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R61 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | (AEP, IT, UK, G) |
| R317 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R318 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R320 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R321 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R322 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R401 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |
| R402-419 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R420 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R421 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R422 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R423 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R424 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R425-428 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R429 | 1-249-437-11 | CARBON 47K 5% 1/4W | (CFD-340) |
| R430 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R431 | 1-249-429-11 | CARBON 10K 5% 1/4W | (US, CND) |
| R432-435 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R436 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R438-440 | 1-247-883-00 | CARBON 150K 5% 1/4W | |
| R441 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R442 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R443 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R444 | 1-249-429-11 | CARBON 10K 5% 1/4W | (EXCEPT US, CND) |
| R477 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R478-481 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R485 | 1-249-415-11 | CARBON 680 5% 1/4W | (US, CND) |
| R485 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | (EXCEPT US, CND) |
| R486 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R488 | 1-249-437-11 | CARBON 47K 5% 1/4W | (CFD-19/350) |
| R497 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R700 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R701 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R702 | 1-247-896-11 | CARBON 510K 5% 1/4W | |
| R703 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R704 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R705 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R706 | 1-247-876-11 | CARBON 75K 5% 1/4W | |
| R707 | 1-249-432-11 | CARBON 18K 5% 1/4W | |
| R708 | 1-247-883-00 | CARBON 150K 5% 1/4W | |
| R709 | 1-247-862-11 | CARBON 20K 5% 1/4W | |
| R710 | 1-249-393-11 | CARBON 10 5% 1/4W | |
| R712 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R713 | 1-247-883-00 | CARBON 150K 5% 1/4W | |
| R714 | 1-247-883-00 | CARBON 150K 5% 1/4W | |
| R716 | 1-249-430-11 | CARBON 12K 5% 1/4W | |
| R717 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R718 | 1-247-899-11 | CARBON 680K 5% 1/4W | |
| R720 | 1-247-891-00 | CARBON 330K 5% 1/4W | |
| R722 | 1-249-439-11 | CARBON 68K 5% 1/4W | |
| R723 | 1-249-440-11 | CARBON 82K 5% 1/4W | |
| R725 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R726 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R727 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R730 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R731 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R732 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R733 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R734 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R735 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R736 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R737 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R740 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R741 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R742 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R743 | 1-247-903-00 | CARBON 1M 5% 1/4W | |
| R744 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R745 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R746 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R748 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R749 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R750 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R751 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R753 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R755 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R756 | 1-249-440-11 | CARBON 82K 5% 1/4W | |
| R757-759 | 1-249-439-11 | CARBON 68K 5% 1/4W | |
| R766 | 1-249-417-11 | CARBON 1K 5% 1/4W | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| R776 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R785-789 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R790 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R792 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| | | < VARIABLE RESISTOR > | |
| RV701 | 1-230-497-11 | RES, ADJ, CARBON 22K (FOCUS BIAS) | |
| RV702 | 1-230-497-11 | RES, ADJ, CARBON 22K (FOCUS GAIN) | |
| RV703 | 1-230-495-11 | RES, ADJ, CARBON 2.2K (E-F BALANCE) | |
| RV704 | 1-230-497-11 | RES, ADJ, CARBON 22K (TRACKING GAIN) | |
| | | < VIBRATOR > | |
| X1 | 1-760-130-11 | VIBRATOR, CRYSTAL (75KHz) | |
| X401 | 1-760-641-21 | VIBRATOR, CERAMIC (4.19MHz) | |
| X402 | 1-760-305-11 | VIBRATOR, CRYSTAL (32.768kHz) | |
| X701 | 1-760-793-21 | VIBRATOR, CERAMIC (16.9344kHz) | |
| ************************************************************ | | | |
| * | 1-656-872-11 | POWER BOARD<br>*********** | |
| | 1-533-217-31 | HOLDER, FUSE | |
| | | < CAPACITOR > | |
| C901-904 | 1-101-005-00 | CERAMIC 22000PF 50V | |
| C905 | 1-104-666-11 | ELECT 220uF 20% 10V | |
| C906 | 1-101-005-00 | CERAMIC 22000PF 50V | |
| | | < CONNECTOR > | |
| * CN901 | 1-691-574-11 | PIN, CONNECTOR (PC BOARD) 3P (EXCEPT US, CND) | |
| | | < JACK > | |
| ⚠CNJ901 | 1-526-838-11 | INLET, AC 2P (~AC IN) (EXCEPT US, CND) | |
| ⚠CNJ901 | 1-540-009-11 | INLET, AC (~AC IN) (US, CND) | |
| | | < CONNECTOR > | |
| * CNP901 | 1-691-574-11 | PIN, CONNECTOR (PC BOARD) 3P (US, CND) | |
| | | < DIODE > | |
| D901-904 | 8-719-046-47 | DIODE 1N5401TM | |
| D905 | 8-719-991-33 | DIODE 1SS133T-77 | |
| | | < FUSE > | |
| ⚠F901 | 1-576-108-11 | FUSE (4A/125V) (US, CND) | |
| ⚠F901 | 1-532-237-00 | FUSE, TIME LAG (T3.15/250V) (EXCEPT US, CND) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < LINE FILTER > | |
| ⚠LF901 | 1-424-150-11 | TRANSFORMER, LINE FILTER | |
| | | < RESISTOR > | |
| R901 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R902 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| | | < TRANSFORMER > | |
| ⚠T901 | 1-427-951-11 | TRANSFORMER, POWER (US, CND) | |
| ⚠T901 | 1-427-949-11 | TRANSFORMER, POWER (EXCEPT US, CND) | |
| ************************************************************ | | | |
| | | MISCELLANEOUS<br>************* | |
| 61 | 1-769-829-11 | WIRE (FLAT TYPE) (FFC) (24 CORE) | |
| 70 | 1-769-828-11 | WIRE (FLAT TYPE) (16 CORE) | |
| 255 | 1-452-732-11 | MAGNET | |
| 304 | X-2625-770-1 | CHASSIS ASSY (MB) (RP), MOTOR (INCLUDING M702) (SPINDLE) | |
| ⚠305 | 8-848-376-01 | DEVICE, OPTICAL KSS-213B/S-N | |
| ANT1 | 1-501-378-11 | ANTENNA, TELESCOPIC | |
| HE601 | 1-500-031-11 | HEAD, MAGNETIC (ERASE) | |
| HRP601 | 1-500-168-11 | HEAD, MAGNETIC (RECORD/PLAYBACK) | |
| M601 | X-3366-491-1 | MOTOR ASSY | |
| M701 | X-3625-769-1 | GEAR, ASSY (MB) (RP), MOTOR (SLED) | |
| S402 | 1-692-960-11 | SWITCH, PUSE (1 KEY) (DOOR OPEN/CLOSE) | |
| S601 | 1-692-434-11 | SWITCH, LEAF (MD POWER) | |
| S602 | 1-692-434-11 | SWITCH, LEAF (PLAY) | |
| S603 | 1-692-434-11 | SWITCH, LEAF (REC) | |
| SP901 | 1-504-816-11 | SPEAKER (10CM) (L-CH) | |
| SP902 | 1-504-816-11 | SPEAKER (10CM) (L-CH) | |
| ************************************************************ | | | |
| | | ACCESSORIES & PACKING MATERIALS<br>******************************* | |
| ⚠ | 1-575-131-11 | CORD, POWER SUPPLY (AEP, IT) | |
| ⚠ | 1-590-147-11 | CORD, POWER (CND) | |
| ⚠ | 1-690-952-21 | CORD, POWER (US) | |
| ⚠ | 1-696-820-21 | CORD, POWER (AEP, IT) | |
| ⚠ | 1-751-214-11 | CORD, POWER (G) | |
| | 3-798-861-11 | MANUAL, INSTRUCTION (ENGLISH/GERMAN) (CFD-340:AEP, UK) | |
| | 3-798-861-21 | MANUAL, INSTRUCTION (ENGLISH) (CFD-340:CND) | |
| | 3-798-861-31 | MANUAL, INSTRUCTION (FRENCH) (CFD-340:CND) | |
| | 3-798-861-41 | MANUAL, INSTRUCTION (FRENCH/SPANISH) (CFD-340:AEP) | |

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|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| R776 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R785-789 | | | |
| | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R790 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R792 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| | | < VARIABLE RESISTOR > | |
| RV701 | 1-230-497-11 | RES, ADJ, CARBON 22K (FOCUS BIAS) | |
| RV702 | 1-230-497-11 | RES, ADJ, CARBON 22K (FOCUS GAIN) | |
| RV703 | 1-230-495-11 | RES, ADJ, CARBON 2.2K (E-F BALANCE) | |
| RV704 | 1-230-497-11 | RES, ADJ, CARBON 22K (TRACKING GAIN) | |
| | | < VIBRATOR > | |
| X1 | 1-760-130-11 | VIBRATOR, CRYSTAL (75KHz) | |
| X401 | 1-760-641-21 | VIBRATOR, CERAMIC (4.19MHz) | |
| X402 | 1-760-305-11 | VIBRATOR, CRYSTAL (32.768kHz) | |
| X701 | 1-760-793-21 | VIBRATOR, CERAMIC (16.9344kHz) | |
| ************************************************************ | | | |
| * | 1-656-872-11 | POWER BOARD<br>*********** | |
| | 1-533-217-31 | HOLDER, FUSE | |
| | | < CAPACITOR > | |
| C901-904 | | | |
| | 1-101-005-00 | CERAMIC 22000PF 50V | |
| C905 | 1-104-666-11 | ELECT 220uF 20% 10V | |
| C906 | 1-101-005-00 | CERAMIC 22000PF 50V | |
| | | < CONNECTOR > | |
| * CN901 | 1-691-574-11 | PIN, CONNECTOR (PC BOARD) 3P | (EXCEPT US, CND) |
| | | < JACK > | |
| ⚠CNJ901 | 1-526-838-11 | INLET, AC 2P (~AC IN) (EXCEPT US, CND) | |
| ⚠CNJ901 | 1-540-009-11 | INLET, AC (~AC IN) (US, CND) | |
| | | < CONNECTOR > | |
| * CNP901 | 1-691-574-11 | PIN, CONNECTOR (PC BOARD) 3P (US, CND) | |
| | | < DIODE > | |
| D901-904 | | | |
| | 8-719-046-47 | DIODE 1N5401TM | |
| D905 | 8-719-991-33 | DIODE 1SS133T-77 | |
| | | < FUSE > | |
| ⚠F901 | 1-576-108-11 | FUSE (4A/125V) (US, CND) | |
| ⚠F901 | 1-532-237-00 | FUSE, TIME LAG (T3.15/250V) | (EXCEPT US, CND) |
| | | < LINE FILTER > | |
| ⚠LF901 | 1-424-150-11 | TRANSFORMER, LINE FILTER | |
| | | < RESISTOR > | |
| R901 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R902 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| | | < TRANSFORMER > | |
| ⚠T901 | 1-427-951-11 | TRANSFORMER, POWER (US, CND) | |
| ⚠T901 | 1-427-949-11 | TRANSFORMER, POWER (EXCEPT US, CND) | |
| ************************************************************ | | | |
| | | MISCELLANEOUS<br>************* | |
| 61 | 1-769-829-11 | WIRE (FLAT TYPE) (FFC) (24 CORE) | |
| 70 | 1-769-828-11 | WIRE (FLAT TYPE) (16 CORE) | |
| 255 | 1-452-732-11 | MAGNET | |
| 304 | X-2625-770-1 | CHASSIS ASSY (MB) (RP), MOTOR (INCLUDING M702) (SPINDLE) | |
| ⚠305 | 8-848-376-01 | DEVICE, OPTICAL KSS-213B/S-N | |
| ANT1 | 1-501-378-11 | ANTENNA, TELESCOPIC | |
| HE601 | 1-500-031-11 | HEAD, MAGNETIC (ERASE) | |
| HRP601 | 1-500-168-11 | HEAD, MAGNETIC (RECORD/PLAYBACK) | |
| M601 | X-3366-491-1 | MOTOR ASSY | |
| M701 | X-3625-769-1 | GEAR, ASSY (MB) (RP), MOTOR (SLED) | |
| S402 | 1-692-960-11 | SWITCH, PUSE (1 KEY) (DOOR OPEN/CLOSE) | |
| S601 | 1-692-434-11 | SWITCH, LEAF (MD POWER) | |
| S602 | 1-692-434-11 | SWITCH, LEAF (PLAY) | |
| S603 | 1-692-434-11 | SWITCH, LEAF (REC) | |
| SP901 | 1-504-816-11 | SPEAKER (10CM) (L-CH) | |
| SP902 | 1-504-816-11 | SPEAKER (10CM) (L-CH) | |
| ************************************************************ | | | |
| | | ACCESSORIES & PACKING MATERIALS<br>******************************* | |
| ⚠ | 1-575-131-11 | CORD, POWER SUPPLY (AEP, IT) | |
| ⚠ | 1-590-147-11 | CORD, POWER (CND) | |
| ⚠ | 1-690-952-21 | CORD, POWER (US) | |
| ⚠ | 1-696-820-21 | CORD, POWER (AEP, IT) | |
| ⚠ | 1-751-214-11 | CORD, POWER (G) | |
| | 3-798-861-11 | MANUAL, INSTRUCTION (ENGLISH/GERMAN) | (CFD-340:AEP, UK) |
| | 3-798-861-21 | MANUAL, INSTRUCTION (ENGLISH) | (CFD-340:CND) |
| | 3-798-861-31 | MANUAL, INSTRUCTION (FRENCH) | (CFD-340:CND) |
| | 3-798-861-41 | MANUAL, INSTRUCTION (FRENCH/SPANISH) | (CFD-340:AEP) |

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| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | 3-798-861-51 | MANUAL, INSTRUCTION (DUTCH/SWEDISH/PORTUGUESE) (CFD-340:AEP) | |
| | 3-798-861-61 | MANUAL, INSTRUCTION (ITALIAN) (CFD-340:IT) | |
| | 3-798-865-11 | MANUAL, INSTRUCTION (ENGLISH/GERMAN) (CFD-350:AEP, G, UK) | |
| | 3-798-865-21 | MANUAL, INSTRUCTION (ENGLISH) (CFD-19/350:CND) | |
| | 3-798-865-31 | MANUAL, INSTRUCTION (FRENCH) (CFD-350:CND) | |
| | 3-798-865-41 | MANUAL, INSTRUCTION (FRENCH, SPANISH) (CFD-350:AEP) | |
| | 3-798-865-51 | MANUAL, INSTRUCTION (DUTCH/SWEDISH/PORTUGUESE) (CFD-350:AEP) | |
| | 3-798-865-61 | MANUAL, INSTRUCTION (ITALIAN) (CFD-350:IT) | |
| * | 3-924-710-01 | INDIVIDUAL CARTON (CFD-340:AEP, IT, UK) | |
| * | 3-924-711-01 | INDIVIDUAL CARTON (CFD-340:CND) | |
| * | 3-924-715-01 | INDIVIDUAL CARTON (CFD-19) | |
| * | 3-924-716-01 | INDIVIDUAL CARTON (CFD-350:CND) | |
| * | 3-924-717-01 | INDIVIDUAL CARTON (CFD-350:AEP, G, IT, UK) | |
| | 8-916-819-90 | REMOTE CONTROL (RMT-C350) (CFD-19/350) | |

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## HARDWARE LIST

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|---|---|---|
| #1 | 7-685-651-79 | SCREW +BVTP 3×20 TYPE2 |
| #2 | 7-682-548-09 | SCREW +B 3×8 |
| #3 | 7-685-133-19 | SCREW +P 2.6×6 TYPE2 |
| #4 | 7-685-647-79 | SCREW +BVTP 3×10 TYPE2 N-S |
| #5 | 7-685-649-79 | SCREW +BVTP 3×14 TYPE2 N-S |
| #6 | 7-685-646-79 | SCREW +BVTP 3×8 TYPE2 IT-3 |
| #7 | 7-621-255-15 | SCREW +P 2×3 |
| #8 | 7-621-773-95 | SCREW +PTT 2.6×6 (S) |
| #9 | 7-628-254-05 | SCREW +PS 2.6×5 |
| #10 | 7-685-861-01 | SCREW +BVTT 2.6×5 (S) |
| #11 | 7-685-104-19 | SCREW +P 2×6 TYPE2 NON-SLIT |
| #12 | 7-621-255-25 | SCREW +PTT 2×4 (S) |

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|---|---|
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**Sony Corporation**
**Consumer A&V Products Company**
**Personal A&V Products Div.**